

Floor Plan



"Progress of Remote Sensing Technology for Smart Future"





Program at a Glance of ACRS2019

Date		Octo	ber 14 (Monday)				Octobe	er 15 (Tu	uesday)					October	16 (Wedn	esday)					October	17 (Thu	ırsday)			October 18 (Friday)						
Room	Room A Roo	n B Room	C Room D Room E	Room F Room	SS Room A	Room B	Room C	Room D	Room E	Room F	Room SS	Room A	Room B	Room C	Room D F	Room E	Room F	Room SS	Room A	Room B	Room C	Room D	Room E	Room F	Room SS	Room A I	Room B	Room C	Room D	Room E	Room F	Room SS
08:30-09:00	#105 #1	# #105	Coffee Break	#100 #1011	⁰² π103	#104	#105	Coffee Brez		#100	#101+102	#105	#104	#105	Coffee Break	#107	#100	#101+102	#105	#104	#103 0	offee Break	#107	#100	#101+102	#103	#104	#105 C	offee Break	#107	#100	#101+102
09:00-09:15					TuA1 1	TuB1 1	TuC1 1	TuD1 1	TuE1 1	TuF1 1		WeA1 1	WeB1 1	WeC1 1	WeD1 1	NeE1 1	WeF1 1		ThA1 1	ThB1 1	ThC1 1	ThD1 1	ThE1 1	ThF1 1		FrA1 1	FrB1 1	FrC1 1	FrD1 1	FrE1 1	FrF1 1	
09:15-19:30					TuA1_2	TuB1_2	TuC1_2	TuD1_2	TuE1_2	TuF1_2		WeA1_2	WeB1_2	WeC1_2	WeD1_2 \	NeE1_2	WeF1_2		ThA1_2	ThB1_2	ThC1_2	ThD1_2	ThE1_2	- ThF1_2		FrA1_2	FrB1_2	FrC1_2	FrD1_2	FrE1_2	FrF1_2	
09:30-09:45			Registration		TuA1_3	TuB1_3	TuC1_3	TuD1_3	TuE1_3	TuF1_3		WeA1_3	WeB1_3	WeC1_3	WeD1_3 \	NeE1_3	WeF1_3	WEBCON	ThA1_3	ThB1_3	ThC1_3	ThD1_3	ThE1_3	ThF1_3		FrA1_3	FrB1_3	FrC1_3	FrD1_3	FrE1_3	FrF1_3	
09:45-10:00					TuA1_4	TuB1_4	TuC1_4	TuD1_4	TuE1_4	TuF1_4	TuSS1	WeA1_4	WeB1_4	WeC1_4	WeD1_4 \	NeE1_4	WeF1_4	(WeSS6)	ThA1_4	ThB1_4	ThC1_4	ThD1_4	ThE1_4	ThF1_4	ThSS1	FrA1_4	FrB1_4	FrC1_4	FrD1_4	FrE1_4	FrF1_4	FrSS1
10:00-10:15					TuA1_5	TuB1_5	TuC1_5	TuD1_5	TuE1_5	TuF1_5		WeA1_5	WeB1_5	WeC1_5	WeD1_5 \	NeE1_5	WeF1_5		ThA1_5	ThB1_5	ThC1_5	ThD1_5	ThE1_5	ThF1_5		FrA1_5	FrB1_5	FrC1_5	FrD1_5	FrE1_5	FrF1_5	
10:15-10:30		Opening	g Ceremony (#201, 202))		TuB1_6	TuC1_6		TuE1_6	TuF1_6		WeA1_6	WeB1_6	WeC1_6	١	NeE1_6			ThA1_6	ThB1_6	ThC1_6	ThD1_6	ThE1_6	ThF1_6				FrC1_6	FrD1_6		FrF1_6	
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11:00-11:15		Ple	enary 1 (#201, 202)		TuA2_1	TuB2_1	TuC2_1	TuD2_1	TuE2_1	TuF2_1		WeA2_1	WeB2_1	WeC2_1	WeD2_1 \	NeE2_1	WeF2_1		ThA2_1	ThB2_1	ThC2_1	ThD2_1	ThE2_1	ThF2_1				Plei	nary 5 (#20 ⁻	1)		
11:15-11:30	Cheol-ł	o Lim (Korea	Aerospace Research In:	stitute, Korea)	TuA2_2	TuB2_2	TuC2_2	TuD2_2	TuE2_2	TuF2_2		WeA2_2	WeB2_2	WeC2_2	WeD2_2 \	NeE2_2	WeF2_2		ThA2_2	ThB2_2	ThC2_2	ThD2_2	ThE2_2	ThF2_2			Hiro	oaki Kuze (Chiba Unive	rsity, Japar	1)	
11:30-11:45		Ple	enary 2 (#201, 202)		TuA2_3	TuB2_3	TuC2_3	TuD2_3	TuE2_3	TuF2_3	TuSS2	WeA2_3	WeB2_3	WeC2_3	WeD2_3 \	NeE2_3	WeF2_3	Wess1	ThA2_3	ThB2_3	ThC2_3	ThD2_3	ThE2_3	ThF2_3	ThSS2							
11:45-12:00	Ch	ristian Heipke	e (Hannover University, G	iermany)	TuA2_4	TuB2_4	TuC2_4	TuD2_4	TuE2_4	TuF2_4	10002	WeA2_4	WeB2_4	WeC2_4	WeD2_4 \	NeE2_4	WeF2_4	WCOOT	ThA2_4	ThB2_4	ThC2_4	ThD2_4	ThE2_4	ThF2_4	11602			Closing	Ceremonvi	#201)		
12:00-12:15		Ple	enary 3 (#201, 202)		TuA2_5	TuB2_5	TuC2_5	TuD2_5	TuE2_5	TuF2_5		WeA2_5	WeB2_5	WeC2_5	WeD2_5 \	NeE2_5	WeF2_5		ThA2_5	ThB2_5	ThC2_5	ThD2_5	ThE2_5	ThF2_5				ologing	ocicinony	1201)		
12:15-12:30		Paolo Gar	mba (Pavia University, Ita	aly)		TuB2_6	TuC2_6	TuD2_6	TuE2_6	TuF2_6		WeA2_6	WeB2_6		WeD2_6 \	NeE2_6	WeF2_6		ThA2_6	ThB2_6		ThD2_6	ThE2_6	ThF2_6								
12:30-12:45																				ThB2-7		ThD2-7										
12:45-13:00			Lunch			L	unch/GRS	SLunchec	on (#204, 20	5)				Lur	nch			WeSS2											Lunch			
13:00-13:15										,										Lunch/	AARS Gene	ral Confere	ence 2 (#20	4, 205)								
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13:45-14:00	MOAT_2 MOE	1_2 MoC1_	2 MODI_2 MOEI_2	MOFI_2	TUA3_2	TUB3_2	TuC3_2	TuD3_2	TUE3_2	TuF3_2		WeA3_2	WeB3_2	WeC3_2	Web3_2	NeE3_2		White	ThA3_2	ThB3_2	ThC3_2	ThD3_2	ThE3_2	ThF3_2								
14:00-14:15	MOAI_3 MOE	1_3 MoUL_	3 MODI_3 MOEI_3	MoF1_3 MoS	1UA3_3	TUB3_3	TuC3_3	TUD3_3	TUE3_3	TUF3_3	TuSS3	WeA3_3	WeB3_3	WeC3_3	WeD3_3	Vees_3	WeSS3	Elephant	ThA3_3	THES_3	ThC3_3	ThD2_4	ThE3_3		ThSS3							
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14:45-15:00		1_5 MoC1_	6 MoE1.6	MoE1.6	ΤμΑ3.6	TUDO_J	TuC3.6	TUDO_0		TuF3.6		WeA3.6	WEDJ_J	J	WeD3 6				ThA3.6	ThB3.6	ThC3.6	ThD3_6	ThE3_6	111.3_3								
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15:45-16:00	MoA2_1 MoE	2_1 MoC2_	1 MoD2_1 MoE2_1	MoF2_1								WeA4_2	WeB4_2	WeC4_2	WeD4_2	NeE4_2												Technic	cal & Cultura	lTour		
16:00-16:15	MoA2_2 MoE	2_2 MoC2_	2 MoD2_2 MoE2_2	MoF2_2			Poster S	Session 1				WeA4_3	WeB4_3	WeC4_3	WeD4_3	NeE4_3		Student		Poste	r.Session 2	'Exhibition	Hall)									
16:15-16:30	MoA2_3 MoE	2_3 MoC2	3 MoD2_3 MoE2_3	MoF2_3 MoS	2		(Exhibiti	ion Hall)			TuSS4	WeA4_4	WeB4_4	WeC4_4	WeD4_4	NeE4_4	WeSS4	Session (WeST)	/ K	SRS Genera	l Assembly	(#204, 205	5) 16:00-17:	00	ThSS4							
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16:45-17:00	MoA2_5 MoE	2_5 MoC2_	5 MoD2_5 MoE2_5	MoF2_5									WeB4_6		١	NeE4_6																
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17:30-18:00				_			AARS G	eneral Con Hapok Vi	ference 1 llage)																							
18:00-18:30		\\/clos	ama Darty (#201, 202)				(0.0		gc)					Otudan	t Night (#204	205)																
18:30-		vveloc	unie Party (#201, 202)											Suuen	n nigin (#204	,203)																

Topic 1	 Remote Sensing Applications (Forestry / Environment / Agriculture / Disaster Management / Marine & Coastal / Hydrology and Water Resources / Climate Change / Urban and Regional Planning) MoA1, MoA2, MoB1, MoB2, MoC1, MoC2, MoD1, MoD2, TuA1, TuA2, TuA3, TuB1, TuB2, TuB3, TuC1, TuC2, TuD1, TuD2, TuD3, WeA1, NeA2, WeA3, WeA4, WeB1, WeB2, WeB3, WeB4, WeD1, WeD2, WeD3, WeD4, WeE1, WeE2, ThA1, ThA2, ThA3, ThB1, ThB2, ThB3, ThD1, ThD2, ThD3, FrA1, FrB1
Topic 2	2. Photogrammetry and Mapping (Digital Photogrammetry) MoE1, MoE2, TuE1, TuE2
Topic 3	 GIS & GNSS (2D/3D/4D GIS Applications / Web GIS Applications / Mobile GIS Applications / GNSS Applications) MoF1, MoF2, TuF1, TuF2, TuF3, WeF1, WeF2, ThF1, ThF2, FrD1, FrF1
Topic 4	4. New Sensors and Platforms (New satellite programs / UAV systems) TuE2, TuE3, ThF3
Topic 5	 Algorithms & Data Processing (Algorithms / Hyper-spectral data Processing / LIDAR Data Processing / UAV Data Processing / Data Fusion / Deep Learning for Remote Sensing Data) TuC3, WeC1, WeC2, WeC3, WeC4, ThC1, ThC2, ThC3, ThE1, ThE2, ThE3, ThF3, FrC1, FrE1, FrF1
Topic 6	 Special Issues (Convergence of New Technologies / 4th Industrial Revolution / Education for Sustainable Development) WeE3, WeE4, ThE1, ThF3, FrF1

Special and Student Sessions



ACRS2019 Web Proceedings



http://acrs2019.sigongji.com

% Korea University Special Session for H2020-EOPEN will be held on Oct. 16. (DCC 2F, #204)



The 40th Asian Conference on Remote Sensing



14~18 October, 2019 / DCC, Daejeon, Korea

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This work was supported by the Korean Federation of Science and Technology Societies (KOFST) grant funded by the Korean government.

I. Welcome Messages



Opening Remark from the General Chair of the ACRS2019 Honorable Mr. Tae-jeong Heo, Mayor of Daejeon; Honorable Dr. Cheol-ho Lim, President Korea Aerospace Research Institute (KARI); Honorable Mr. Cheolkyu Choe, President of Daejeon International Marketing Enterprise (DIME); Honorable Dr. Cheon Kim, AARS2019 Chair, honorary member of KSRS; Honorable Dr. Myung-Hee Jo, Prof. of Kyungpook National Univ.; honorary general chair of ACRS2019; Honorable Dr. Shunji Murai, Prof, of Tokyo Univ.; Chairman of Asian Association on Remote Sensing (AARS); Honorable Dr. Kohei Cho, Prof. of Tokai Univ.; General Secretary of AARS; Honorable Dr. Paolo Gamba, President of Geoscience and Remote Sensing Society (GRSS);

Honorable Dr. Christian Heipke, President of Int. Soc. for Photogrammetry and RS (ISPRS); Honorable Local Organizing and International Committee of the ACRS2019; Honorable Guests, Ladies and Gentlemen.

On behalf of the Local Organizing Committee and Korean Society of Remote Sensing, I am honored to announce opening the 40th Asian Conference on Remote Sensing, ACRS2019, here in Daejeon in South Korea. We sincerely welcome all of the participants and delegates to the Conference.

Asian Association on Remote Sensing (AARS) becomes one of the largest organizations in its field in Asia. Over 29 member countries of AARS have hosted the ACRS every year since 1979. This year is particularly meaningful to us as celebrating the 40th journey of AARS.

We, Korean Society of Remote Sensing (KSRS) was founded in 1984, and we have accompanied with the academy journey of AARS by contributing to the advanced research on remote sensing and its related technology. On the basis of our role, KSRS keeps encouraging researchers to cooperate several stockholders via academic conferences and publications. KSRS will always support ACRS.

"Progress of Remote Sensing Technology for Smart Future" is a timely theme of ACRS2019. These days, we have been experiencing uncertainties and imbalances in a changing world and asked to secure our global society for future as well as current generation. We are asked to consider more comprehensive information for better decision-making in solving our facing challenges and problems such as climate change, environmental disasters, regional conflicts etc.

The remote sensing technology is a new and high technology and should contribute to solving the challenges and ensure sustainable development of our common society. Big data, Internet of Things (IOT), 4th Industrial Evolution and Artificial Intelligence (AI) have been developed by humankind and contribute to our decision-making for economic development. But these new technologies sometimes threaten the identity and dignity of our humankind, when they are used just for own purposes and interests of specific groups.

For our better future, it will be necessary for our experts from diverse fields to acknowledge differences among us and to gather wisdom for common development through space and time sharing. The ability to share spatio-temporal information based on remote sensing technology will lead us to the sustainable development of our global society. ACRS has offered us to share our knowledge on remote sensing technology and spatio-temporal information for ensuring our future prosperity. The intergenerational sharing of our experience will be also important for our common future. We are in the same space together in Daejeon for sharing our time experienced by our individuals. I hope ACRS 2019 can be a space where scientific innovation and social development relevant to remote sensing are pursued together through sharing our knowledge and experience. Please actively share your precious knowledge and experience with your beloved people in ACRS.

Through 78 sessions, and 651 presentations, I believe that ACRS2019 will offer us academic friendship and sharing-ship of our space and time through our active participation. I deeply appreciate The ACRS 2019 Organizing Committee and wish all participants enjoy your space and time in Daejeon.

Woo-Kyun Lee General Chair of ACRS2019 Organizing Committee President of KSRS Professor of Korea University, Korea



Dear International Colleagues,

On behalf of the Asian Association on Remote Sensing (AARS), I would like to welcome you all to the 40th Asian Conference on Remote Sensing (ACRS) to be held from 14th to 18th October 2019 at the Daejeon Convention Center (DCC), Daejeon, Korea. The 1st ACRS was organized in Bangkok, Thailand in 1980. After 40 years, ACRS has become one of the largest remote sensing conferences in Asia. This year, the main theme of the conference is "Progress of remote sensing technology for smart future". The technology advancement in the field of remote sensing is significant. Small satellites, UAVs, cloud computing and AI are expanding the possibility of remote sensing. Various topics including data processing, GIS, GNSS, and remote sensing on many application fields will be discussed at the conference.

Actually, this is the third time for us to organize ACRS in Korea, the first time in 1986, the second time in 2003. As we all know, Korea is one of the most active countries in remote sensing in Asia and is the long-time contributor to ACRS/AARS. This time we are happy to co-organize the 40th ACRS with the Korea Society of Remote Sensing (KSRS). Two years ago, Prof. Choen Kim of Kookmin University kindly and strongly proposed to organize 40th ACRS in Daejeon, Korea. Since his plan was so well prepared including the financial support from Daejeon City, we all agreed to organize the 40th ACRS in Daejeon. Since early this year, I have exchanged so many e-mails with my friend Prof. Taejung Kim of Inha University on the ACRS preparation. Two Months ago, I have visited Daejeon and had a good discussion with the Local organizing Committee (LOC) on the preparation for ACRS2019. I was quite impressed with the good facility of DCC and the excellent team work of LOC leaded by KSRS President Prof. Woo-Kyun Lee. I have no doubt on the success of the conference. Let us get together at ACRS2019 in Daejeon, Korea and cerebrate our 40 years anniversary of ACRS!

Thank you.

Kohei Cho General Secretary of AARS Professor of Tokai University, Japan



Hello, Everyone! I am Professor Myung-Hee Jo of Department of Aero-Satellite Geo-Informatics Engineering and Director of Global Land Satellite Information Center of Kyungpook National University, Korea.

Dear all participants of the 40th ACRS conference and AARS members, we are very pleased and sincerely welcome to meet you at Daejeon Convention Center in Korea.

In particular, as a KSRS charter member and the first Ph.D. in the field of remote sensing in Korea, in addition, as the first-generation researcher of the Geo-spatial Image Information area who established the Korean Association of Geographic Information Studies (KAGIS), I am very honored and it's so meaningful that the 40^{th} ACRS conference is held in Korea.

As you know, South Korea is a small and divided country, and the earth observation satellites with the high-resolution KOMPSAT with 55cm are the most efficient equipment to acquire various information of interesting area. This causes the rapid development of the spatial image information technology in

Korea based on advanced IT technology.

Furthermore, in recent era of the 4th Industrial Revolution Technology, the field of Photo-grammetric image and Geo-Science Information technologies are becoming more popular by integrating with Big data, AI, Mobile, IoT, Cloud computing, UAV and Drone. These technologies are getting essential for overcoming the climate changes not only encouraging human happiness and peace but also industrial and economic development.

For the past 40 years, remote sensing technology has advanced so significantly. In 1983, for my master course study, I used the Landsat MSS 80m resolution image and doctor thesis in 1990, the Landsat TM 30m image was applied. And also when I worked as UNCRD researcher in 1992, I used the 50m MOS image of Japan for LAOS shifting cultivation studies. After 30 years, now we can use sub meter high quality satellite image.

Until the present day, as the pioneer and specialist of education, research, business, and national policy in the field of remote sensing and spatial information, I established the three university departments to create the jobs for the talented young researchers, and actively worked as a committee member of the Korean National Science and Technology Committee on Space.

Futhermore korean government has strong interest about satellite, so we have many national based high resolution KOMPSAT series and geostationary GEO-KOMPSAT.

As a result, Korea is developing the next-generation medium-sized satellite series with the weight 500kg, and will launch the earth observation satellite with the high-resolution 50cm in 2020. In addition, the number of national satellite centers are established in Korea by all ministries related to national land management such as meteorology, ocean, environment, agriculture, water resource, forest, disaster, security and national defense.

These satellite centers will provide and service the high-quality earth observation information to not only Korean people but also foreign people all over the world.

Anyway, during this ACRS conference, we hope that you will have meaningful opportunities by sharing the research results with the people from the different countries and institutions.

Actually in recent, we had the serious damages by the typhoons, but from last week it is changed to very mild weather. In general, Korea is a so beautiful country with the different four seasons. The present autumn in Korea is famous for maple and red leaves, so you can see the plenty of autumn colored trees here.

Please enjoy Korean culture such as K-pops and Korean foods, and beautiful Korean weather. I also hope that you will make good memories and lovely friendship with each other participants during this ACRS conference.

Thank you very much.

Regards,

Myung-Hee Jo

Honorary General Chair of ACRS2019 Organizing Committee Professor of Kyungpook National University, Korea

II. Committees

Local Organizing Committee

Honorary General Chair



Myung-Hee Jo Kyungpook National University

AARS2019 Chair





Woo-Kyun Lee Korea University

Organizing Chair



Choen Kim Kookmin University

Technical Program Chair



Taejung Kim Inha University

Technical Program Vice-Chair



Seong-Woo Jeon Korea University



Chul-Uong Choi Bukyong National University

Sponsorship & Exhibition Co-Chair



Sang-Wan Kim Sejong University



Dongseok Shin Satrec Initiative Co., Ltd

Publicity & Finance Chair



Chul-Soo Ye Far East University

Organizing Committee Member



Yoon-Soo Kim Vice President of KSRS



Hoonyol Lee Vice President of KSRS



Hyung-Sup Jung Editorial Director of KSRS



Kyung-Soo Han Liaison Director of KSRS

International Committee

AARS General Secretary



Kohei Cho Tokai University (Japan)

International Committee Member



Armin Gruen ETH Zurich (Switzerland)



Fuan Tsai National Central University (China Taipei)



Chris Elvidge Colorado School of Mines (USA)



Peter T. Y. Shih National Chiao-Tung University (China Taipei)



Manzul Hazarika AIT (Thailand)



Nguyen Dinh Duong VAST (Vietnam)



Fahmi Amhar BAKOSURTANAL (Indonesia)



Junichi Susaki Kyoto University (Japan)



Bruce Forster SSSI (Australia)



Shin-ichi Sobue JAXA (Japan)



Shunji Murai Tokyo University (Japan)



Yi-Hsing Tseng National Chen-Kung University (China Taipei)

III. Technical Program

1. Plenary Session

Plenary Session 1



[MoPL-1] October 14(Mon), 11:00 ~ 11:30 / DCC 2F, Grand Ballroom Earth Observation in Korea Cheol-ho Lim (Korea Aerospace Research Institute, Korea)

Biography

Dr. LIM is currently President of Korea Aerospace Research Institute (KARI) contributed by the Ministry of Science & ICT(MSIT), appointed January 2018. After taking the position, he managed the successful launching of Test Launch Vehicle (TLV) of Korea Space Launch Vehicle II (KSLV-2 or NURI) and Geostationary KOMPSAT-2A (GK-2A) last year. From 2009 to 2013, he acted as Vice President and led a number of development programs from launch vehicle NARO to Arirang satellite, Korean helicopter, etc.. Before that, between 2002 and 2009, he served as the Director of Smart UAV Development Center to develop smart unmanned aerial vehicle systems as one of the key 21st Century R&D Programs promoted by the Ministry of Science & Technology. He led the development program of tilt-rotor type unmanned aircraft with autonomous flight system and collision avoidance system, which involved hundreds of engineers from KARI, Universities and industries.

He joined KARI in 1994 after working as a leader of Computer-Aided Engineering (CAE) Research Group at Systems Engineering Research Institute under Korea Institute of Science & Technology (SERI/KIST) for eight years, where he conducted a research on CAE engineering and computer simulation applied to aerospace and automobile engineering.

He has also played an active role in various community; as President of Korean Society for Industrial & Applied Mathematics (KSIAM) in 2016, as President of Korean Society of Aeronautical & Space Sciences (KSAS) in 2011, as Pesident of Korean Society of Aviation & Aeronautics (KSAA) in 2010, as President of Korea Unmanned Vehicle Systems Association (KUVSA) in 2009, and as a committee member of Aviation and Railway Accident Investigation Board of the Ministry of Land, Infrastructure, and Transport, from 2002 to 2012. He has teaching experience as well, working as a part-time professor for the Department of Aerospace Engineering at Inha University and Gyungsang National University, and for the Department of Mechanical Engineering at Chungnam National University and Incheon University. from 1979 to 1981, he was a teaching assistant for the Department of Mechanical Engineering at Ajou University.

He holds Docteur d'Ingenieur in Mechanical Engineering from the Universite de Toulouse III (Universite de Paul Sabatier) in Toulouse, France (1986), and also the DEA & T.A. as graduate diploma in Aerospace Engineering from the Ecole Nationale Superieur de l'Espace et de l'Aeronautique (Sup'Aero) in Toulouse, France. He obtained Master of Science (1977) and Bachelor of Science (1975) degree in Aerospace Engineering from Seoul National University.

Abstract

Earth Observation in Korea

Satellite is eye in the sky and data from satellites are absolutely necessary to monitor change detection occurring in Korea. The KARI (Korea Aerospace Research Institute), founded in 1989, has successfully realized the nation's space programs and carried out a key role in satellite development. From 1999, KARI has developed and launched low earth orbit satellites, called KOMPSAT (Korea Multi-Purpose SATellite), and geostationary satellites. The COMS (Communications, Ocean and Meteorological Satellite) was launched in 2010 and serviced value added data through the KMA (Korea Meteorological Administration) and the KIOST (Korea Institute of Ocean Science and Technology), and various weather data and marine plankton distribution data. The GK (Geostationary KOMPSAT)-2A launched in 2018 will provide more accurate weather data very quickly. In addition, GK-2B, which will be launched in early 2020 and equipped with ocean color and environmental sensors.

Plenary Session 2



[MoPL-2] October 14(Mon), 11:30 ~ 12:00 / DCC 2F, Grand Ballroom UAV technology for a smart future

Christian Heipke (Hannover University, Germany)

Biography

Christian Heipke was born in Lüneburg, Germany in 1961. From 1980 to 1986 he studied Geodetic Sciences and Surveying at the universities of Hannover, Sydney, and Munich. He graduated from the Technical University Munich and subsequently joined the Industrieanlagen-Betriebsgesellschaft (IABG), Ottobrunn as a Research Scientist. In 1990 he became Research Fellow at the Chair for Photogrammetry and Remote Sensing, Technical University Munich. In the same year he received a Ph.D. degree (Dr.-Ing.) and in 1994 the venia legendi (Dr.-Ing. habil.), both from TU Munich.

From 1991-1994 he led the research group 'Digital Photogram- metry' at the same institution. Throughout 1995 he was a visiting professor of photogrammetry at The Ohio State University, Columbus, OH. He returned to TU Munich at the beginning of 1996 were he headed the research group 'Image matching and object

extraction'. He was awarded another visiting professorship at Ecole Polytechnique Fédérale de Lausanne, Switzerland in spring 1998.

In October 1998 he was appointed Head of the Institute of Photogrammetry and GeoInformation, Leibniz Universität Hannover, where he currently leads a group of about 25 researchers, most of them funded through grants from national and international science organisations and from industry. From 2009-2011 he served as Dean of the Faculty of Civil Engineering and Geodetic Science. In 2012 he was on sabbatical leave and worked at the IGN-MATIS research laboratory in Paris for six months.

His professional interests comprise all aspects of digital photogrammetry & remote sensing, image understanding and their connection to GIS and computer vision. His two areas of special expertise are automatic sensor orientation and object extraction from images.

Christian Heipke has successfully supervised about 35 PhD theses and has about 400 scientific publications to his name, some 90 of which appeared in peer reviewed international journals. He has acted as guest editor of major international journals in photogrammetry and remote sensing, and he is on the editorial board of various of these journals. He has organized and co-organized numerous international scientific meetings in the fields of photogrammetry, remote sensing, GIS and computer vision, in particular the biennial ISPRS Hannover Workshop on High Resolution Earth Imaging for Geospatial Information (since 1999). He has chaired Working Groups of the International Society for Photogrammetry and Remote Sensing (ISPRS) for 16 years and was vice- president of EuroSDR (European Spatial Data Research, formerly known as OEEPE) from 2004-2009, in which he was responsible for research. From 2011-2014 he was chair of the German Geodetic Commission (DGK), from 2012-2016 ISPRS Secretary General. Currently he serves as ISPRS President.

Abstract

Unmanned aerial vehicles (UAV) have been given major attention in many areas of applications. Their most intriguing characteristic is that using UAV one can reach just about any point in the air to then carry out data collection. In particular, images can be taken from arbitrary positions, which is why UAVs equipped with cameras are sometimes called the "third eye in the sky". UAV technology has seem major leaps in development, which have led to light weight and affordable hardware systems, autonomous navigation, high speed and high band width data acquisition and processing, but also to some legal restrictions.

UAVs are also increasingly employed in photogrammetry and remote sensing. Note, that in this talk the term "remote sensing" is used rather loosely to include any sensing from a distance. Thus, data acquisition from the ground and from the air are included, as long as a physical contact is not necessary.

"Smart" solutions, for instance for cities, but also in a more general sense, are being advertised in a lot of areas, too. In this context "smart" includes • ubiquitous networked sensing from any position (space, air, ground),

- continuous operation (24 hours a day, 7 days a week),
- accurate, reliable, safe (high integrity) processing,
- automated / autonomous monitoring (and potentially action) in real-time,
- scalable solutions.

Rather than giving a general technology overview, this talk will concentrate on one example, namely pedestrian detection, tracking and reidentification. We will describe the methods and algorithms employed as well as their general nature which makes it possible to use them in other applications as well. Using this example, we will thus show the potential of imaging from UAV, i.e. arbitrary positions, for smart solutions needed in the future.

Plenary Session 3



[MoPL-3] October 14(Mon), 12:00 ~ 12:30 / DCC 2F, Grand Ballroom **Urban remote sensing: what is our future?** Paolo Gamba (*Pavia University, Italy*)

Biography

Paolo Gamba is currently Full Professor of Telecommunications at the University of Pavia, Italy. He received the Laurea degree in Electronic Engineering "cum laude" from the University of Pavia, Italy, in 1989, and the Ph.D. degree in Electronic Engineering from the same University in 1993. He is a Fellow of IEEE, and from 2009 to 2013 he has served as Editor-in-Chief of the IEEE Geoscience and Remote Sensing Letters. He has been member of the AdCom and Chapter Committee Chair for the IEEE Geoscience and Remote Sensing Society from 2014 to 2016, Latin American activity Liaison in the same period, has served in 2016 as Vice President for Professional Activities, Executive Vice President, and is currently President of the same Society.

He has been the organizer and Technical Chair of the biennial GRSS/ISPRS Joint Workshops on "Remote Sensing and Data Fusion over Urban Areas" since 2001 until 2015. He also served as Technical Co-Chair of the 2010 and 2015 IEEE Geoscience and Remote Sensing Symposium, respectively in Honolulu, Hawaii, and Milan, Italy, and will be Technical Co-Chair of IGARSS 2020 in Waikaloa, Hawaii.

He has been Chair of Technical Committee 7 "Pattern Recognition in Remote Sensing" of the International Association for Pattern Recognition (IAPR) from October 2002 to October 2004 and Chair of the Data Fusion Committee of the IEEE Geoscience and Remote Sensing Society from October 2005 to May 2009.

He has been the Guest Editor of special issues of IEEE Transactions on Geoscience and Remote Sensing, IEEE Journal of Selected Topics in Earth Observation and Applied Remote Sensing, ISPRS Journal of Photogrammetry and Remote Sensing, International Journal of Information Fusion, Journal of Applied Remote Sensing, and Pattern Recognition Letters on the topics of Urban Remote Sensing, Remote Sensing for Disaster Management, Pattern Recognition in Remote Sensing Applications, Data Fusion, and Hyperspectral Urban Remote Sensing.

He has been invited to give keynote lectures and tutorials in several occasions about urban remote sensing, data fusion, EO data and risk management. He published nearly 160 papers in international peer-review journals and presented 300 research works in workshops and conferences.

Research Interests

- a) Design of efficient algorithms to analyse EO data and extract feature to characterize urban areas and in general human settlements at multiple spatial scales and spectral wavelengths.
- b) Design of data fusion techniques to exploit information coming from multiple EO and in situ data sources for environmental risk models at local, regional and global scale.
- feature extraction, selection and combination procedures to evaluate spectral, spatial and temporal characteristics of each available data source for their comparison (e.g. change detection) or synergetic use (e.g. multivariate regression);
- fusion of features by means of algorithms able to reconcile multiple features from both homogeneous and heterogeneous data sources (e.g. 2D/3D, vector and raster, ...) and/or different scales via inference or aggregation schemes.
- c) Development of novel tools to extract quantitative parameters from regional and continental remotely sensed data and to link the extracted information to risk and environmental models.
- classification, mapping and geospatial data fusion procedures for the retrieval of parameters and information layers essential to understand the above mentioned processes.

Bibliometry							
	Researcher ID	Scopus					
Number of papers cited by others	234	402					
Total number of citations	4345	6190					
h-index	35	40					

Abstract

Earth observation is key to understand the interactions between the humankind and the environment, and cities are the locations where this interaction is stronger. Therefore, the analysis of data collected by multiple sensors on board of satellites is moving from more traditional urban extent mapping to intra-urban change detection, and from land cover mapping to biophysical variables characterization. In turn, this highlights the possibility for urban remote sensing to provide a more and more useful characterization of urban areas, and open a glimpse to our future, helping to monitor threats to human health, such as vector borne diseases, urban heat waves and so on.

Plenary Session 4



[FiPL-1] October 18(Fri), 10:30 ~ 11:00 / DCC 2F, Grand Ballroom Quality Assurance for Land Monitoring Projects: A Cooperative Network Liang-Chien Chen (National Central University, China Taipei)

Biography

Liang-Chien Chen received a bachelor degree and a master degree from Department of Civil Engineering of National Cheng-Kung University (NCKU), Taiwan in 1972 and 1974, respectively. He earned a Ph.D. degree from Department of Civil Engineering, University of Illinois, Urbana, in 1985. He joined the institute of Photogrammetry, NCKU, from 1985 to 1986. He then moved to the Center for Space and Remote Sensing Research (CRSRSR) of National Central University (NCU), Taiwan, as an associate professor during 1986-1993 and a full professor ever since 1993. He has been honored with a Distinguished Professor of NCU since 2006. He had been appointed the director of CSRSR two times, during 1995~1998 and 2010 up to 2013. He was also in charge of the satellite ground receiving station, which is an important component of the geoinformation infrastructure in Taiwan. His research activities are in digital photogrammetry, geometrical data processing for remotely sensed data, lidar processing, feature extraction, and three-dimensional object reconstruction.

Dr. Chen had been the President of the Chinese Taipei Society of Photogrammetry and Remote Sensing from 2010 to 2014. He joins a number of editorial boards of remote sensing and photogrammetry related journals.

Abstract

Quality Assurance for Land Monitoring Projects: A Cooperative Network

Land monitoring is an indispensable work for both hazard mitigation and land management. Severe weather as caused by climate change results in increasing damages especially for those areas with dense population. On the other hand, quick landuse changes as well as urbanization make the dynamic monitoring necessary. Since the information for land monitoring is crucial, some key factors should be taken into account in the establishment of the information system. The factors, at least, include quality, timeliness, three dimensionality, and completeness with details. Among others, quality is the focus in this presentation that requires (1) sound specification, (2) solid work team, (3) optimal operation procedure, and (4) independent inspection and acceptance check.

Five examples covering entire Taiwan are summarized to demonstrate project quality assurance under solid cooperative networks that comprise governmental agencies, private sectors, institutions, and CSPRS. Governmental agencies set up the budget, specifications, and time frame along with forming a supervisory board. Private sectors are responsible for data production. Institutions and CSPRS inspect the production procedure and keep close tabs on the acceptance check.

The first example established DEM derived from airborne Lidar point clouds with 1m resolution from 2010 to 2015. To cope with fast terrain changes, the DEM is being updated and will be finished in 2020. NCKU has been in charge of the inspection and final acceptance check that met the standard of ISO2859.1-1999, AQL=1.5. The second example is a self-developed platform for monitoring land deformation using InSAR by CECI. With respect to GPS measurements, the accuracy check gives promising results both on geodetic and engineering scales. The third example describes the quality assurance, as inspected by CSPRS, for the generation of base map and laduse survey with 1/5,000 scale. The independent field check followed AQL=6.5 sampling standard. The fourth example, as performed by NCU, demonstrates the monitoring for illegal developments using satellite images bimonthly. By integrating supplementary data, an enforcement system was built for land management. It is so successful that the system has become a routine operation tool to crack down illegal land developments in Taiwan. The final example illustrates the procedure for the reconstruction of 4.8 million building models by CECI. The quality was also examined by CSPRS.

The five reported cases provide following observations. Academic institutions can also take the social responsibility by joining geoinformation projects to assure quality. CSPRS plays an important role in the inspection and acceptance check for geoinformation infrastructure. Private sectors in Taiwan are well equipped, mature, and capable to deliver quality products for sophisticated projects. It is believed that the three parties are willing and ready to collaborate with Asian counterparts.

Plenary Session 5



[FiPL-2] October 18(Fri), 11:00 ~ 11:30 / DCC 2F, Grand Ballroom Role of remote sensing toward a better future of our environment Hiroaki Kuze (Chiba University, Japan)

Biography

Hiroaki Kuze is professor and director of Center for Environmental Remote Sensing (CEReS), Chiba University, Japan. His major research field is the optical remote sensing of the atmosphere.

He finished the graduate school of the University of Tokyo in 1982, obtaining the Ph.D degree in physics in the field of quantum electronics. After working as a post-doctoral researcher for the Institute for Physical and Chemical Research (RIKEN), in 1984 he became a research assistant and in 1986 an associate professor in the physics department, faculty of liberal arts, Shizuoka University. During 1987-1988, he stayed at the Institute for Quantum Optics, Max-Planck Institute in West Germany as a visiting scientist. From 1995 to 2004, he worked as an associate professor of CEReS, and in 2004 he became a full professor. Between 2014 and 2016, he was the president of the Remote Sensing Society of Japan (RSSJ). Between 2010 and 2014, as well as from 2018 to the present, he serves as the director of CEReS.

Abstract

Since the launch of Landsat-1 in 1972, the satellite observation of the Earth's surface and the atmosphere has made considerable progress. Especially, satellite sensors such as MODIS, SPOT, and TRMM, for example, were epoch-making in that they started providing multi-band and high spatial-resolution data as well as the cross-sectional profile of liquid water in the atmosphere. Also, the progress of synthetic aperture radar (SAR) sensors have been noticeable because of their capability of observing the Earth both daytime and nighttime regardless of the cloud existence. The research community has been significantly profited from such satellite data for studying and understanding many aspects of our environment. Recently, however, with the exacerbation of climate change effects, it is required for all of us to act promptly to increase the preparedness against the possible outcomes of global warming in many different aspects, from sea-level rise to agricultural production. In this plenary talk, it will be discussed how we can make a concerted effort to enhance the role of remote sensing for realizing a more sustainable environment toward a better future.

2. Oral Session

Guideline for Oral Presentation

[Guideline for Session Chairs]

For each oral session, one chair or two co-chairs are assigned. When two co-chairs are assigned, please discuss how to share the session before the session starts.

As a chair or co-chairs, you are responsible to check for the presence of all presenters. When there is a no-show presentation within the session, please **DO NOT** proceed to the next presentation immediately but please **DO** wait for 15 minutes so that the follow-on presentations will start at the scheduled time.

An evaluation sheet for oral presentations will be distributed to each chair/co-chair. Please identify no-show presentations in the sheet. Also, **check for presenters' age and gender** and fill this information in the sheet. Evaluate all presentations and mark according to the Evaluation sheet. Please understand that your evaluation is very important for selecting various ACRS awards.

· How to understand the Presentation Identification Letter



① Letter assigned in Day of presentation

Мо	Tu	We	Th	Fi
October 14	October 15	October 16	October 17	October 18
(Monday)	(Tuesday)	(Wednesday)	(Thursday)	(Friday)

② Letter assigned to each room

А	A B		D	E	F		
Room #103	Room #104	Room #105	Room #106	Room #107	Room #108		

③ Letter assigned in order of session and presentation

[Preparation guideline]

Each oral presentation is 15 Minutes including Q&A. Please try to keep the given amount of time for all the speakers could finish the session right on time.

- The presentation material should be either MS Power-Point or PDF files. (PPTX files are also acceptable.)
- All presenters are required to use the arranged computer in the session room.
- The file name of the presentation should begin with the program code, followed by '_oral'. File extensions should be of the usual self-describing type:
- MoA1-1_oral.ppt (PowerPoint)
- MoA1-1_oral.pdf (Portable Document Format)

[Before the session]

- Please visit the preview room to check your file compatibility in a session computer.
- After checking the compatibility, please upload your file in your session computer before your presentation.
- You should arrive in the session room BEFORE the beginning of session, and report to the session chairperson. Please bring your name tag or prepare a short biography for smooth introduction by session chair.

[During the session]

- The session is modulated by 1(one) or 2(two) chairperson(s). The chairperson(s) will evaluate your presentation for selecting various ACRS awards. (*Selected presenters will be awarded at the closing ceremony on October 18 (Friday)).

October 14 (Monday) / 13:30-15:15

	Room A		Room B		Room C
Session Title Session Chairs Date Time	[MoA1] Remote Sensing of Forestry 1 Prof. Kai-Yi Huang (National Chung-Hsing University, China Taipe) Dr. Chul-Hee Lim (Korea University, Korea) October 14 (Monday) 13:30-15:15	Session Title Session Chair Date Time	[MoB1] Remote Sensing of Environment 1 Dr. Michelle Japitana (<i>Caraga State University,</i> <i>Philippines</i>) October 14 (Monday) 13:30-15:00	Session Title Session Chairs Date Time	[MoC1] Remote Sensing for Agriculture 1 Dr. Norsida Man (Universiti Putra Malaysia, Malaysia) Dr. Etsuko Nakazono (The University of Tokyo, Japan) October 14 (Monday) 13:30-15:15
MoA1-1 [13:30-13:45]	Assessment of shadow index using ray tracing based on a voxel model on various forest structures Takumi Fujwar and Watau Takeuchi The University of Tokyo, Japan	MoB1-1 [13:30-13:45]	Application of AIRS sounding products for trend analysis of temperature, water vapor, ozone, methane and carbon- monoxide over India Pooja Jindal', Pradeep Kumar Thapliyal ² and Munn Vrayak shukla' ¹ Indian Institute of Remote Sensing, India ² Space Application Centre, India	MoC1-1 [13:30-13:45]	Mapping paddy field in east Japan using Sentinel-1 time series assisted by sentinel-2 Shimpei Inoue ¹ , Chinatsu Yonezawa ² and Akhiko tto ¹ ¹ National Institute for Environmental Studies, Japan, ² Tohoku University, Japan
MoA1-2 [13:45-14:00]	Estimation of leaf area index from UAV multispectral indices and machine learning models Asniyani Nur Haidar Abdullah, Farrah Melissa Muharam, Zed Diyana Zulkafli, Khairudin Nurihuda, Muhamad Faiz Che Hashim, Sti Naja Mohd Zad and Mohd Razi Ismai Uniwerstir Putra Malaysia, Malaysia	MoB1-2 [13:45-14:00]	Assessment of population exposure to estimated PM10 concentrations in Malaysia in 2000, 2008 and 2013 Ameerah Su'ad Abdul Shakor, Mohamad Idpal Mazeil and Nurammad Alfahr Pahrol Ministry of Health Malaysia, Malaysia	MoC1-2 [13:45-14:00]	Application of remote sensing and crop modeling for rice in Andhra Pradesh, India Emma Quicho ¹ , Tri Setiyono ¹ , Aleen Maunahan ¹ , Sushree Satapathy ² , Ponnurangam Ganesar ² , Kranthi Kumar ² , Ramohan Reddy ² , Gene Romuga ¹ , Cornelia Garcia ¹ , Amel Rala ¹ , Sunii Medida ¹ , Pasuna Podila ¹ , Prabhu Prasadini ¹ , Luca Gatt ¹ and Francesco Holecs ⁴ 'International Rice Research Institute (IRRI), Philippines ² , International Rice Research Institute (IRRI-AP Office, India, ³ Acharya N.G. Ranga Agricultural University (ANGRAU), India, ⁴ sarmap, Switzerland
MoA1-3 [14:00-14:15]	Extrapolating the spatial distribution of Taiwan red cypress reversely from "TERRAIN-SHELTERBELT" protecting Taiwan fir Bao-Hua Shao, Chen Hsu, Chin-Jou Hsu, Ching Chuang, Nan-Chang Lo and Kai-Yi Huang National Chung-Hsing University, China Taipei	MoB1-3 [14:00-14:15]	Evaluation of monthly water consumption and land surface temperature derived using landsat 8 and MODIS data R. Enriquez ¹ , M. Rodriguez ² , A. Blanco ¹ , C. Cruz ¹ , I. Estacio ¹ and L.R. Depositario ³ 'Ichiversity of the Philippines Diliman, Philippines, ² Ateneo de Zamboanga University, Philippines, ³ Zamboanga City Water District, Philippines	MoC1-3 [14:00-14:15]	Extraction of onion fields infected by anthracnose-twister disease in selected municipalities of Nueva Ecija using UAV imageries and object based image analysis Ronaldo T. Alberto, Ariel R Biagtan, Miguelito F. Isip and Jereny Cariño E. Rivera <i>Central Luzon State University, Philippines</i>
MoA1-4 [14:15-14:30]	Pasture biomass estimation using remote sensing technology Batbileg Bayaraa', Akira Hirano', Myagmartseren Pureviseren3, Battsergel Vandansambuu' and Byambasuren Damdin' 'Mongolian University of Life Sciences (MULS), Mongolia, ² . Japan International Research Center for Agricultural Sciences (JIRCAS), Japan, 'National University of Mongolia, Mongolia	MoB1-4 [14:15-14:30]	Identifying possible planning interventions to control the increase of land surface temperature K.G.D. Lakmali, G.M.W.L. Gunawardena and Lakshika Meetiyagoda University of Moratuwa, Sri Lanka	MoC1-4 [14:15-14:30]	Mapping rice paddy cropping patterns and drought impacts in Uganda using multi-temporal MODIS images from 2001 to 2018 Miwa Aoyama and Wataru Takeuchi <i>The University of Tokyo, Japan</i>
MoA1-5 [14:30-14:45]	Mapping of forest cover extent and change in the Philippines using decision tree classification on ALOS-1/2 PALSAR-1/2 mosaic data MarTirx Estornata and Klaus Schmitt Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH, Philippines	MoB1-5 [14:30-14:45]	Identifying Habitats of red panda (Ailurus f. Fulgens) in Sakteng wildlife sanctuary, Bhutan in Maxent using climate change scenarios Sonam Tobgay and Natapon Mahavik Naresuan Univ, Thailand	MoC1-5 [14:30-14:45]	Assessment of Leaf Chlorophyll Content, Leaf Area Index and Yield of Com (Zea mays L.) Using Low Altitude Remote Sensing Rizza Lorena P. Espenido, Ronaldo B. Saludes, Moises A. Dorado and Pompe C. Sta. Ouz University of the Philippines
MoA1-6 [14:45-15:00]	Quantifying impact of deforestation using multi-satellite and multi-spatial model in the North Korea Chulthee Lim', Hyun-Kh Chul ¹⁹ , Francesco Vuolo ² , Hyun-Woo Jo ³ , Sujong Lee ¹ , Sle-Gee Lee ¹ and Woo-Kyun Lee ¹ , Sle-Gee Lee ¹ and Woo-Kyun Lee ² , Woiresity of Natural Resources, Life Sciences, Austria, ² Hanns Seidel Foundation Korea Office, Korea	MoB1-6 [14:45-15:00]	Assessment of air quality using portable sensors in Tokyo metro stations and underground mall Deepanshu Agarwal and Wataru Takeuchi The University of Tokyo, Japan	MoC1-6 [14:45-15:00]	Detection and differentiation of selected rice diseases using hyperspectral data Jean Rochielle F. Mirandilla ^{1,2} and Enrico C. Paringt ¹ ¹ University of the Philippines, Philippines, ² Philippine Rice Research Institute, Philippines
MoA1-7 [15:00-15:15]	Complementary use of airborne LiDAR and terrestrial laser scanner to assess above ground biomass/carbon in ayer hitam tropical rain forest Cora Jane C. Lawas ¹ , Yousif Ali Hussin ² and Evert Herk Noosterman ² ¹ Central Visayas Studies Center-University of the Philippines Cebu, Philippines, ² University of Twente, Netherlands			MoC1-7 [15:00-15:15]	Drone services and application for paddy fertilizing and oil palm mapping for climate change Norsida Man, Hidayah Hassim, Nabara Isah Sehu and Nik Norasma Universiti Putra Malaysia, Malaysia

	Room D		Room E	Room F				
Session Title	[MoD1] Remote Sensing for Disaster	Session Title	[MoE1] Photogrammetry and Mapping 1	Session Title	[MoF1] GIS & GNSS 1			
Session Chair	Prof. Chul-Uong Choi (Bukyong National University, Korea)	Session Chair	Prof. Jiann Rau (National Cheng Kung University, China Taipei)	Session Chair	 Prof. Lao-Sheng Lin (National Chengchi University, China Taipei) 			
Date Time	October 14 (Monday) 13:30-14:45	Date Time	October 14 (Monday) 13:30-15:15	Date Time	October 14 (Monday) 13:30-15:00			
MoD1-1 [13:30-13:45]	The geographical study on drought assessment of the central dry zone in Myanmar (case study on Minbu Town, Magway Region) Khin Mar Yee, Mu Ku Than', Kyi Lint', May Myat Thu', Mar Lar Han' and Moe Thidar Htwe ² ¹ Dagon University, Myanmar, ² Yadanarpon University, Myanmar	MoE1-1 [13:30-13:45]	Observations and analysis of beimen sandbank surface change using multi- temporal UAV datasets Ruli Andaru ^{1,2} and Jiann-Yeou Rau ¹ ¹ National Cheng Kung University, China Taipei, ² Gadjah Mada University, Indonesia	MoF1-1 [13:30-13:45]	Improving the undulation estimation accuracy by genetic algorithm based least squares support vector machine Chia+Isin Chen and Lao-Sheng Lin National Chengchi University, China Taipei			
MoD1-2 [13:45-14:00]	Analysis on damaged areas by wildfire on Gangwon Province in 2019 using KOMPSAT3 images Yeji Kim, Jong Min Yeom, Hongtak Lee, Hyun-Ok Kim, Taebyeong Chea and Jeongho Lee Korean Aerospace Research Institute, Korea	MoE1-2 [13:45-14:00]	Design and performance of a wearable geospatial data acquisition system Linh Giang Do, Kanghyeok Choi, Changjae Kim, Hyurmook Lim and Sel Kim Myongji University, Korea	MoF1-2 [13:45-14:00]	Spatial distribution analysis of Leafminer (Lyriomyzae trifolii Burgess) in onion growing areas of Nueva Ecija using geographic information system (GIS) Ronaldo T. Alberto, Ariel R. Biagtan and Miguelto F. Isip Central Luzon State University, Philippines			
MoD1-3 [14:00-14:15]	Comparison of soil erosion between sub-watersheds of Shihmen reservoir in Taiwan Chih-Hung Wang and Water Chen National Taipei University of Technology, China Taipei	MoE1-3 [14:00-14:15]	Accuracy analysis of photogrammetric stereo visual odometry according to imaging geometry Sung-Joo Yoon and Taejung Kim Inha University, Korea	MoF1-3 [14:00-14:15]	Assessment of human mobility from taxi GPS probe data in Bangkok, Thailand Songkom Siangsuebchart, Sarawut Ninsawat, Apichon Witayangkurn and Surachet Pravinvongvuth Asian Institute of Technology, Thailand			
MoD1-4 [14:15-14:30]	Assessment of flood hazard using geospatial data and frequency ratio model in Sukhothai Province, Thailand Kamonchat Seigita, Aphittha Yodying, Sasition Chatsudarat, Polpreecha Chidburee, Nattapon Mahavik, Charatdao Kongmuang and Sarintip Tantaree Naresuan University, Thailand	MoE1-4 [14:15-14:30]	The strategy for multiview dense image matching and point cloud refinement Hsuan-Hsuan Liu and Jen-Jer Jaw National Taiwan University, China Taipei	MoF1-4 [14:15-14:30]	Spatial analysis of the air pollution effect on domestic violence and robbery in New South Wales I Gede Brawiswa Putra, Pei-Fen Kuo and Hsu- Hsien Chen National Cheng Kung University, China Taipei			
MoD1-5 [14:30-14:45]	Pine wood nematode disease wood extraction using TripleSat satellite images based on richer convolutional features Dongyang Yan ¹ , Ting Chen ¹ , Pengfei Yan ¹ , Wenwen Qi ¹ , Yuexia Qiao ¹ , Jianjun He ¹ , Chong Chen2 ¹ Twenty First Century Aerospace Technology Co. Ltd, China ² Twenty First Century Aerospace Technology (Asia) Pte. Ltd, Singapore	MoE1-5 [14:30-14:45]	Deformation monitoring for historical site using close-range photogrammetry technique Pei-An Lin and Yi-Hsing Tseng National Cheng Kung University, China Taipei	MoF1-5 [14:30-14:45]	GeoEDGE map engine: spatial data sharing & visualiztion tool for collavorative map editing Anuradha Rajanayake and Dimesh Dharmathilake GeoEDGE (Pvi) Ltd, Sri Lanka			
		MoE1-6 [14:45-15:00]	Assessment of photogrammetric volume estimation as a method for quantifying the economically valuable industrial minerals in Sri Lanka Rajitha Mashan Athukonali, Hernalal Panagoda ² , Marzul Kumer Hazarika ² , Kavinda Gunasekara ¹ and Sahan Rajitha Jayawardena ² ¹ Asian Institute of Technology, Thailand, ² University of Moratuwa, Sri Lanka	MoF1-6 [14:45-15:00]	A comparison of DEM generation from LiDAR data using LasTools and ArcMap software Bahareh Kalantar ¹ , Husam A. H. Al-Najjar ² , Adel Salern Ali ² , Biswajeet Pradhan ²⁴ and Shattri Manson ² ¹ RIKEN Center for Advanced Intelligence Project, Japan ² University of Technology Sychey, Australa, ³ University and Technology Sychey, Australa, ¹ University Korea			
		MoE1-7 [15:00-15:15]	Aerial photo data provision using small format aerial photography and ground control point: case study Parangtritis tropical sand dunes, Indonesia Fajru Wahidil Muharam, Farid Ibrahim and Nicky Setyawan Parangtritis Geomaritime Science Park, Indonesia					

October 14 (Monday) / 15:45-17:30

	Room A		Room B	Room C				
Session Title Session Chairs	[MoA2] Remote Sensing of Forestry 2 Prof. Meriam Santillan (Caraga State University, Philippines) Prof. Man Sing Wong (The Hong Kong Polytechnic University. Hong Kong)	Session Title Session Chair	[MoB2] Remote Sensing of Environment 2 Prof. Chih Wu (National Cheng Kung University, China Taipe)	Session Title Session Chair	[MoC2] Remote Sensing for Agriculture 2 Prof. Chul-Uong Choi (Bukyong National University, Korea)			
Date Time	October 14 (Monday) 15:45-17:30	Date Time	October 14 (Monday) 15:45-17:15	Date Time	October 14 (Monday) 15:45-17:15			
MoA2-1 15:45-16:00	Detection of dead tress with remote sensing technologies for assessing planted forests Azin Azmi, Norimaniah Mazelan, Mohd Fairuz Fuaziand Muhamed Kamal Azidy Musa Malaysian Space Agency, Malaysia	MoB2-1 15:45-16:00	Estimating PM. ₁₀ concentrations in the main routes of Hanoi, Vietnam by using VNREDSat-1 data Nguyen Nhu Hung ³ , Le Minh Hang ³ , Tran Van Anh ² , Du Vu VietQuan ³ and Van-Manh Pham ³ ¹ Le Quy Don Technical University, Vietnam, ² University of Mining, Geology, Vietnam, ³ VNU University of Science, Vietnam	MoC2-1 15:45-16:00	Assessment of drought impact on rice paddy field in North Korea from 2007 to 2019 Etsuko Nakazono and Wataru Takeuchi The University of Tokyo, Japan			
MoA2-2 16:00-16:15	Using dual-polarization Sentinel-1a for mapping vegetation types in Daklak, Vietnam Hang Le Minh ¹ Truong Vu Van ¹ and Tuan Tran Anh ² ¹ Le Quy Don Technical University, Vietnam, ² Vietnam Academy of Science, Technology, Vietnam	MoB2-2 16:00-16:15	Estimation of ground-level PM2.5 concentrations in northern Thailand from MODIS aerosol product Sompong Liangrocapart, Suphongsa Kketkeeree, Shariff Manuthasna and Aniwat Plodpai Mahanakom University of Technology, Thailand	MoC2-2 16:00-16:15	Development of a satellite-based modular mapping and assessment program for rice production for the Philippines: the MAPALAY project experience Carla Mae Arellano, Rusty Lopez, Enrico Paringit and Czar Jakii Sarmiento University of the Philippines, Philippines			
MoA2-3 16:15-16:30	Aboveground biomass estimation of mangroves in Siargao Island, Philippines using Sentinel-1 image Meriam Makinano-Santilan, Charlene G. Bolastig and Jojene R. Santillan <i>Caraga State University, Philippines</i>	MoB2-3 16:15-16:30	Estimating particulate matter concentrations (PM10) from Aerosol optical depth over the Emirate of Abu Dhabi, United Arab Emirates Abdelgadir Abuelgasim United Arab Emirates University, UAE	MoC2-3 16:15-16:30	Evaluation of RapidEye, Sentinel-2 and Landsat-8 imageries in rice terrace extraction using machine learning algorithms Hang Thi Do, Venkatesh Raghavan and Go Yonezawa Osaka City Uhir, Japan			
MoA2-4 16:30-16:45	Hyperspectral estimation of leaf chlorophyll content in Moso Bamboo (Phyllostachys pubescens) forests Regessa Terefe Urga ¹² , Kunyong Yu ¹² and Jian Lu ¹² ¹ University Key Laboratory of Technology, Optimize Resource Utilization in Fujian Province, China, ² Fujian Agriculture, Forestry University, China	MoB2-4 16:30-16:45	A geoinformatics-based modeling and mapping techniques for an integrated surface water quality monitoring and assessment Michelle V. Japitana ¹ , Alexander T. Demetillo ¹ , Evelyn B. Taboada ¹ , Chul-soo Ye ³ and Marlowe Edgar C. Burce ² 'Univ. of San Carlos, Philippines, ² Caraga State Univ, Philippines, ³ Far East Univ, Korea	MoC2-4 16:30-16:45	Targeting dissemination of submergence tolerant rice in Assam, India: a geomatics approach D. D. Sinhal, A. N. Singh ¹ , Tri D. Setiyono ² and U. S. Singh ² ¹ International Rice Research Institute, India, ² International Rice Research Institute, Philippines, ³ International Potato Center, India			
MoA2-5 16:45-17:00	The global mangrove watch – mapping mangrove extent and change in Southeast Asia over 20 years Ake Rosenqvist, Pete Bunting ² , Richard Lucas ² and Lammert Hilarides ³ 'solo Earth Observation (soloEO), Japan, ² Aberystwyth University, UK, ³ Wetlands International, Netherlands	Mo82-5 16:45-17:00	Assessment of population exposure to PM2.5 and long-term mortality in Malaysia Muhammad Alfath Pahrol ¹ , Wan Rozita Wan Mahiyuddin ¹ , Rafiz Shaharudin ¹ , Moharmad Idpal Mazel ¹ , Noraishah Mohammad Sham ² , Ameerah Suda Abdul Shakor ¹ , Mohd Talib Latif ² , Mazrura Sahan ² , Nurul Amalin Fathah Kamarul Zamar ³ , Kastun Devi Kanniah ² and Norien Mohamed ³ ¹ Ministry of Health, Malaysia, ² Universiti Kebangsaan Malaysia, Malaysia, ³ Universiti Teknologi Malaysia, Malaysia, ³ Ministry of Health Malaysia, Malaysia	MoC2-5 16:45-17:00	Application of multitemporal Sentinel-1 Synthetic Aperture Radar (SAR) data to assess rain-fed rice growth in the upper Chirtwer Basin, Thailand Aimamorn Kongarsa and Chattichai Walsurasingha Khon Kaen University, Thailand			
MoA2-6 17:00-17:15	Modeling anthropogenic effects on the burn area of forest and land in Kalimantan Indonesia using random forests Lesi Mareta ¹ , Rahmat Hidayat ¹ , Rini Hidayat ¹ and Amida Lailatul Latifat ² ² Indonesian Institute of Sciences, Indonesia	MoB2-6 17:00-17:15	Linkage between green space structures and mental disorder in Taiwan Hao-Ting Chang, Chih-Da Wu and Huey-Jen Su National Cheng Kung University, China Taipei	MoC2-6 17:00-17:15	Remote sensing monitoring of crop disease based on fusion of different image scales Weiguo Li Jiangsu Academy of Agricultural Sciences, China			
MoA2-7 17:15-17:30	Detection of structural tree defects using thermal infrared imaging Coco Yin Tung Kwok ² , Man Sing Wong ¹ , Hon Li ³ , Karena Ka Wai Hui ³ , Florence Wan Yee Ko ² , Herman Yu Kay Shu ² and Zhan Kan ³³ ¹ The Hong Kong Polytechnic University, Hong Kong, China, ² Government of the Hong Kong Special Administrative Region, Hong Kong, China and ³ State Key Laboratory of Information Engineering in Surveying, Mapping and Remote Sensing, China							

	Room D		Room E		Room F
Session Title	[MoD2] Remote Sensing for Disaster Management 2	Session Title	[MoE2] Photogrammetry and Mapping 2	Session Title	[MoF2] GIS & GNSS 2
Session Chair	Prof. Jaehyung Yu (Chungnam National University, Korea)	Session Chairs	Prof. Tee-Ann Teo (National Chiao Tung University, China Taipei) Prof. Changjae Kim (Myongji University, Korea)	Session Chair	Prof. Lao-Sheng Lin (National Chengchi University, China Taipei)
Date Time	October 14 (Monday) 15:45-17:30	Date Time	October 14 (Monday) 15:45-17:30	Date Time	October 14 (Monday) 15:45-17:15
MoD2-1 15:45-16:00	Comparison of Bingham mine landslide DSMs using Pleiades Tri-stereo satellite data Philip Chang PCI Geomatics, Canada	MoE2-1 15:45-16:00	Stereo visual navigation based on network adjustment of relative orientation parameters Kuan-Ying Lin, YH-King Tseng and Kai-Wei Chiang National Cheng-Kung University, China Taipei	MoF2-1 15:45-16:00	Study on mitigating the systematic errors between the announced orthometric heights in different years by corrector surface models Chia-Hsin Chen, Lao Sheng Lin, Wei-Jun Wang and Yan-YWu National Chengchi University, China Taipei
MoD2-2 16:00-16:15	LiDAR-based flood hazard simulation in northeastern Luzon River Basins, Philippines Januel P. Floresca Isabela State University, Philippines	MoE2-2 16:00-16:15	A hybrid approach for building candidate extraction from high-resolution satellite imagery Hyowon An ¹ , Changjae Kim ¹ , Hyosung Lee ² and Daesik Shin ² <i>"Myongij Univ, Korea, "Sunchon National Univ,</i> <i>Korea, "Agency for Defense Development, Korea</i>	MoF2-2 16:00-16:15	GIS-based methodology on techno- economic potential assessment of sugarcane residues in Medellin, Cebu, Philippines Wenyville Galang ^{1,2} , Ian Dominic Tabañag ¹ and Michael Loretero ¹ 'Ihiversity, Philippines ² Holy Name University, Philippines
MoD2-3 16:15-16:30	Backscattering analysis of typhoon- induced landslides using Sentinel-1 C-band SAR data Yu-Ching Huang and Shou-Hao Chiang National Central University, China Taipei	MoE2-3 16:15-16:30	Skeleton-based automatic road network extraction from an orthophoto colored point cloud Elyta Widyaningrum ¹² and Roderik C. Lindenbergh ¹ ¹ Delft University of Technology, Netherlands, ² Geospatial Information Agency, Indonesia	MoF2-3 16:15-16:30	Geospatial Resource Information System for Decentralized Planning & Decision Support in Himachal Pradesh, India Meher Kaushal ¹ , Sunil Sharma ² and Brijesh Sakan ² 'SRM Institute for Science & Technology Chennai, India, ² Haryana Space Application Centre (HARSAC), India, ⁴ State Council for Science Technology & Environment, India
MoD2-4 16:30-16:45	Mapping secondary surface deformation related to the 2018 sulawesi earthquake via Synthetic Aperture Radar offset tracking WorkSyung Baek and Hyung-Sup Jung University of Seoul, Korea	MoE2-4 16:30-16:45	Western lampung probabilistic Tsunami hazard model: investgations by aerial photogrammetry and remote sensing data Arlandy P. Atbad ¹ , W. Takeuchi ² , S. Jonathan ³ , M. Jamila ¹ , Achmad Ardy ² and Chusna Meimuna ² 'Kampus Baru UI Depok, Indonesia, ² The University of Tokyo, Japan ¹ Institute Technology of Sumatera, Indonesia, ¹ Diponegoro University, Indonesia, ⁴ Lampung University, Indonesia, ⁶ The University of Indonesia	MoF2-4 16:30-16:45	A citizen volunteered application for rural commuters to manage traffic congestion- potentials for a GIS based mobile application Granie R.Jayalath' and Sureka Chethan ² ¹ Roads Development Authority, Sri Lanka, ² University of Colombo, Sri Lanka
MoD2-5 16:45-17:00	Land surface temperature (LST) as a part of space based multi-parametric approach for (earthquake) precursor studies (S-MAPS) Nabendu Raul', Madhumita Jana' and P.K. Champatira, ² 'IIT, India, ² IIRS, India	MoE2-5 16:45-17:00	Mapping traffic signboard from mobile mapping systems using deep learning approach PeiCheng Chen and Tee Ann Teo National Chiao Tung University, China Taipei	MoF2-5 16:45-17:00	Heuristic automatic georeferencing of digitally captured sketch maps for community and participatory GIS Puryapat Sessomboon and Sally E. Goldin King Mongkut's University of Technology Thonburi, Thailand
MoD2-6 17:00-17:15	A fire risk map for protected areas of Mongolia: Tujiin Nars NP, Khan Khentii SPA and Bogd Khan SPA Elbegiargal Nasanbat ¹² , Ochirkhuyag Lkhamjav ² , Amanjd Bulkhali ² , Chuluunbaatar Isevee Oirov ² , Odayar Mishigdorj ¹² and Erdenetuya Magsa ²⁴ Information, Research Institute of Meteorology Hydrology, Erwinorment, Mongolia, ² Mongolian Geospatial Association, Mongolia, ² Mengolian Geospatial Association, Mongolia, ³ The Ministry of Environment, Tourism, Mongolia, ³ Mational Agency for Meteorology, Environmental Monitoring, Mongolia	MoE2-6 17:00-17:15	Spatial distribution for the ancient mounted tombs using uav UAV digital maps in Fukuoka Yukya Taniguchi ¹ , Susumu Ogawa ² and Toshiro Hannan ^a ¹ University of Tokyo, Japan, ² Institute of Spatial Technology, Japan, ³ Nagasaki Univ, Japan	MoF2-6 17:00-17:15	Spatial optimization and land use allocation based on carrying capacity using cellular automata Sitarari Safitri, Irawan Sumarto, Akhmad Riqqi and Alberus Delar Inst. Tech. of Bandungm, Indonesia
MoD2-7 17:15-17:30	The Study of Landslide susceptibility using GIS based on rainfall deriving from TRMM over Northern Thailand Sasithon Chatsudarat, Aphittha Yodying, Kamonchat Seejata, Polpreecha Childburee, Nattapon Mahavik, Charatdao Kongmuang and Sarintip Tantanee Naresuan University Thailand	MoE2-7 17:15-17:30	A methodology to obtained 3D thermograph of a building for a better building inspection N.S. Ishak', M. Nadzii Md Reba', A. Ammad', N. N. Sarbin', Tong, K.F.' and Jeny, O. H. J.' 'Universiti Teknologi Malaysia, Malaysia, ² Andes Consultants Pte.Ltd, Singapore		

October 15 (Tuesday) / 09:00-10:30

	Room A		Room B	Room C			
Session Title Session Chair	[TuA1] Remote Sensing of Forestry 3 Dr. Nguyen Duong (VAST, Viet Nam)	Session Title Session Chair	[TuB1] Remote Sensing of Environment 3 Prof. Jungho Im (UNIST, Korea)	Session Title Session Chairs	[TuC1] Remote Sensing for Agriculture 3 Dr. Pazhanivelan Sellaperumal (Tamil Nadu Agricultural University, India) Dr. Jing Wang (Jiangsu Academy of Agricultural Svience China)		
Date Time	October 15 (Tuesday) 09:00-10:15	Date Time	October 15 (Tuesday) 09:00-10:30	Date Time	October 15 (Tuesday) 09:00-10:30		
TuA1-1 09:00-09:15	Evaluation of vegetation indices (VIs) to detect twister disease of onion using Sentinel-2 imagery Ronaldo Aberto, Miguelito Isip and Ariel Biagtan <i>Central Luzon State University, Philippines</i>	TuB1-1 09:00-09:15	PM ₁₀ and NO ₂ concentration variations in indonesia using geospatial technologies: a case study Liadra Kusuma Widya ¹² , Chih-Da WU ²³ , Ya-Ping Hsiao ¹ and Lalu Muhamad Jædan ² ¹ The Univ. of Tainan, China Taipei, ² The Univ. of Surabaya, Indonesia, ³ National Health Research, China Taipei	TuC1-1 09:00-09:15	Estimating corn (<i>Zea Mays</i> I.) LAI using UAV-derived vegetation indices Jayson O. Furnera, Ronaldo B. Saludes, Moises A. Dorado and Pompe C. Sta. Cruz <i>The Univ of Laguna, Philippines</i>		
TuA1-2 09:15-09:30	Mapping natural forest by Landsat multitemporal image data - case study in Kon Turn province of Vietnam Nguyen Dirh Duong Vietnam Academy of Science and Technology, Vietnam	TuB1-2 09:15-19:30	Estimation and analysis of aerosol optical thickness (AOT) in metro manila from 2015 to 2018 using remote sensing and GIS Ricardo Marlo S. Juangco, Arlan S. Pagcu, Roseanne V. Ramos and Ayin M. Tamondong The Univ. of Quezon City, Philippines	TuC1-2 09:15-19:30	Modeling inter-annual and seasonal distribution of crop depredation by wild asian elephants in eastern THAILAND during 2009 to 2017 Nurtikom Kitratpom and Wataru Takeuchi <i>The Univ. of Tokyo, Japan</i>		
TuA1-3 09:30-09:45	Optimum three layers for change detection using Landsat images Essam Hassan Hamza, Mohamed Ahmed Gomaa and Hassan Elsaid Elhifnawy Military Technical College, Egypt	TuB1-3 09:30-09:45	Spatiotemporal change analysis of the protected areas: a case study-igneada floodplain forests Erme Çolak ¹ , Meve Toker ² and Filiz Suna ³ 'ITU, Turkey, "Ministry of Agriculture and Forestry, Turkey," ITU, Turkey	TuC1-3 09:30-09:45	Regional rice yield estimation based on assimilation of remote sensing data and crop growth model with ensemble KALMAN method JingWang Kun Yu Bhui Land Miao Tian Jiangsu Academy of Agricultural Sciences, China		
TuA1-4 09:45-10:00	Forest classification by tree species with UAV data and U-Net Ei Matsui, Masahiko Nagai, Yumiko Nagai, Tsuyoshi Eguchi, Shoji Okamoto and Yoshiki Mizukarni Yamaguchi University.Japan	TuB1-4 09:45-10:00	Impact assessment of urbanization on air quality in Colombo, Sri Lanka Lilangi Varunika Wijesinghe and Wataru Takeuchi The University of Tokyo, Japan	TuC1-4 09:45-10:00	Title bolded (times new roman, 14 point type, centered, capitalized every words, with the exception of units of measure or other specially terms that are recognized and used in lowercase form) Woo-Kyun Lee', Seong-Woo Jeon' and Taejung Kim ² The Unix of Seoul, Korea, ² The Unix of Incheon, Korea		
TuA1-5 10:00-10:15	Analyzing the relationship between land cover and land surface temperature (LST) distribution in the mount papandayan Area, West Java Tin Widyani Satriawan, Endah Sulistyawati and Agung Budi Harto Institut Teknologi Bandung, Indonesia	TuB1-5 10:00-10:15	Spatial estimation of methane emission from rice fields using sentinel-1A SAR data and MODIS satellite data N.S. Sudarmanian, S. Pazhanivelan and M. Venkatesan <i>The Univ. of Coimbatore, India</i>	TuC1-5 10:00-10:15	Assessment of agricultural land- cover change in NUEVA ECLJA using geographic information system and remote sensing technologies Edmark Bulaong, Eliza E. Camaso, Anrie Melinda Paz Aberto and Katirian Magnano The Univ. of Muñoz, Philippines		
		TuB1-6 10:15-10:30	Estimation of ground SO ₂ concentration through the synergistic use of satellite data and numerical models Yoojin Kang, Hyunyoung Choi, Jungho Im, Eun- na.Jang, Junghee Lee and Yeonsu Lee The Univ. of Ulsan, Korea	TuC1-6 10:15-10:30	Verification of color indices obtained from digital cameras for estimation of rice growth statuses under various conditions Yukie Tanaka, Keisuke Katsura and Megumi Yamashita Tokyo University of Agriculture and Technology, Japan		

	Room D		Room E	Room F				
Session Title	[TuD1] Remote Sensing for Disaster Management 3	Session Title	[TuE1] Photogrammetry and Mapping 3	Session Title	[TuF1] GIS & GNSS 3			
Session Chair	Dr. Alice Laborte (International Rice Research Institute, Philippines)	Session Chairs	Prof. Taejung Kim (Inha University, Korea) Prof. Khairul Nizam Abdul Maulud (Universiti Kebangsaan Malaysia, Malaysia)	Session Chair	Dr. Narong Pleerux (Burapha University, Thailand)			
Date	October 15 (Tuesday)	Date	October 15 (Tuesday)	Date	October 15 (Tuesday)			
Time	09:00-10:15	Time	09:00-10:30	Time	09:00-10:30			
TuD1-1 09:00-09:15	Assessment of urban vulnerability to earthquake hazard for tabriz city, NW IRAN USING ANP-ANN model Mohsen Alizadeh ¹ , Amin Beiranvand Pour ²⁴ , Bahareh Kalmat ² and Aidy Muslim ⁴ ¹ Universiti Teknologi, Malaysia, ² Korea Polar Research Institute, Korea, ³ Goal-Oriented Technology Research Group, Japan, ⁴ Universiti Malaysia Terengganu, Malaysia	TuE1-1 09:00-09:15	A preliminary study on updating a detected traffic cone's coordinates obtained from a stereo camera on a pseudo high definition map database Miguel Luis R. Lagahit and Yi-Hsing Tseng National Cheng Kung University, China Taipei	TuF1-1 09:00-09:15	Site suitability analysis of diversion dams in quezon, Philippines using multi-criteria decision analysis and GIS Bryan M. Baltazar, Ronaldo B. Saludes, Moises A Dorado and Pompe C. Sta. Cruz UPLB, Philippines			
TuD1-2 09:15-09:30	Analysis of spatial and temporal characteristics of drought and flood based on precipitation temperature index at winter wheat growth stages Mao Tian and Jing Wang Institute of Agricultural Information, China	TuE1-2 09:15-19:30	High accuracy digital surface model (DSM) generation, orthorectification and mosaicking using phase one aerial cameras Philp Chang PCI Geomatics, Canada	TuF1-2 09:15-19:30	A study on the development of the urban waters flooding simulation system using Unity3d Yeong-Cheol Choi, Dae-Ik Kang, Sung-Chan Oh and Kjeong-Hwan Choi <i>GED C&I Co., Ltd, Ko</i> rea			
TuD1-3 09:30-09:45	Integrated approach in determining building risk to TSUNAMI HAZARD : a case study of Penang, Malaysia Sabrina Shahri, Zuraimi Suleiman, Shahruddin Ahmad, Nurul Nadia Abd Malek and Hana Mohamed Jamil <i>Malaysian Space Agency, Malaysia</i>	TuE1-3 09:30-09:45	Photogrammetric 3D modelling potential comparison of SFM-based new generation image matching software Umut Gunes SEFERCIK, Feride TANRIKULU and Can ATALAY Zonguldak Bülent Ecevit University, Turkey	TuF1-3 09:30-09:45	On-road parking in Taipei city: spatial analysis of policy impact Meng-Chin Tsai, Stephan van Gasselt and Tzu- Chin Lin National Chengchi University, China Taipei			
TuD1-4 09:45-10:00	Predicting potential forest fire occurrences in the state of uttarakhand, India using maxent species distribution modelling Souradeepa Naskar Tata Institute of Social Sciences, India	TuE1-4 09:45-10:00	Investigation of palu tunnel deformations along the creeping section (hazar-palu segment) of the east anatolian fault, Turkey by terrestrial laser scanner Ugur Dogan ¹ , Bulent Bayram ¹ , Semih Ergintav ² , Aper Yigtoglu ¹ , Ziyadin Caki ² , Cengiz Zabol ³ and Haynulah Karabulu ⁷ 'Yidiz Technical University, Turkey, ² Bogazici University, Turkey, ³ Istanbul Technical University, Turkey	TuF1-4 09:45-10:00	Calculation of the number of peaks in the thousand hills area of southern JAVA using national DEM, focal maxima function and topography slope classification method Hen Sutanta and Amalia Tirea Universitas Gadjah Mada, Indonesia			
TuD1-5 10:00-10:15	Delineating flood extent and flood- prone rice areas in the Philippines using synthetic aperture radar Alice Laborte ¹ , Jery Raiz ¹ , Sonia Asilo ² , Mary Rose Mabalay ² , Neale Paguirigan ¹ , Juanito Maloom ² , Mabel Barroga ² , Jesiree Elena Ann Biba ² , Meriam Coñado ² , Eve Daphne Radam ² , Jovino de Dios ² and Eduardo Jimmy Quilang ¹ International Rice Research Institute, Philippines ² Philippine Rice Research Institute, Philippines	TuE1-5 10:00-10:15	A concrete bridge crack size measurement procedure based on unmanned aerial vehicle and image registration HsuanYiLiand ChihYuan Huang National Central University, China Tapei	TuF1-5 10:00-10:15	3D cadastral information system using CGA code and city engine for multi stories building with different vertical ownership ID's, a case of Adama, Ethiopia AS.Mohammed Abdul Athick ¹ and Manikandan Sathyanarayanan ² ¹ National Central University, China Taipei, ² National Taiwan University, China Taipei			
		TuE1-6 10:15-10:30	Grassland coverage and biomass estimation based on major quadrat from UAV photogrammetry BAO Nisha, LIU Shanjun and MAO Yachun Northeastern University, China	TuF1-6 10:15-10:30	Web-based application for housing suitability identification Jesterlyn Q, Timosan and Melbert R. Bonotan <i>Caraga State University, Philippines</i>			

October 15 (Tuesday) / 11:00-12:30

Room A		Room B		Room C	
Session Title	[TuA2] Remote Sensing of Forestry 4	Session Title	[TuB2] Remote Sensing of Environment 4	Session Title	[TuC2] Remote Sensing for Agriculture 4
Session Chair	Prof. Kyusung Lee (Inha University, Korea)	Session Chairs	Prof. Jungho Im (UNIST, Korea) Dr. Khin Yee (Dagon University, Myanmar)	Session Chair	Prof. Anjin Chang (Texas A&M University-Corpus Christi, United States of America)
Date Time	October 15 (Tuesday) 11:00-12:15	Date Time	October 15 (Tuesday) 11:00-12:30	Date Time	October 15 (Tuesday) 11:00-12:30
TuA2-1 11:00-11:15	A combination method based on CSF and minimum weighted graph cuts to determine location and height of Individual tree from airborne LiDAR data Cao Yujie ¹ , Cheng Xiaojun ¹ , Shan Ru ² , Li Jintao ¹ , Yang Zexin ¹ and Huang Ka ¹ 'Tongij Uhi, China, ² Qingdao Institute of Marine Geology, China	TuB2-1 11:00-11:15	Estimation 1 km MODIS land surface temperature under cloudy conditions for humid summer days Cheolnee Yoo', Jungho Im ¹ , Dongjin Cho ¹ , Naoto Yokoya ² and Junshi Xia ² ' <i>UNIST, Korea, ²RIKEN, Japan</i>	TuC2-1 11:00-11:15	Assessment of cropland use in the AKKOL district of Kazakhstan using MODIS NDVI time-series data Aigul Bekbayeva, Farabi Yermekov, SholpanValiyeva and Jay Sagin The Univ. of Nur-Sultan, Kazakhstan
TuA2-2 11:15-11:30	Evaluation of Matang Mangrove forest loss and gain in 10 years time using multi-temporal satellite derived vegetation index Mohd Faruz Fuazi, Muhamad Zulfazii Zakaria and Azlin Azmi Malaysian Remote Sensing Agency, Malaysia	TuB2-2 11:15-11:30	Calculating sediment yield using HEC- HMS in pilan and matiao watershed in Southem Philippines Joseph E. Acosta, Richard M. Logronio, Ace Niño B. Guieb and Gus Kali R. Oguis The Univ. of Davao City, Philippines	TuC2-2 11:15-11:30	Single crop phenotyping using unmanned aerial system (UAS) data Anjin Chang ¹ , Jinha Jung ¹ and Juan Landivar ² ¹ The Univ. of Corpus Christi, USA ² Texas A&M AgniLife Research and Extension Center, USA
TuA2-3 11:30-11:45	Listvenite occurrences in the fault zones of Northern Victoria Land, Antarctica: aster-based mapping approach Amin Berarwand Pour ¹⁷ , Yongcheol Park ¹ , Jong Kuk Hong ¹ , Aidy M Muslim ³ and Biswajeet Padhan ³ ¹ Korea Polar Research Institute, Korea ² Universiti Malaysia Terengganu, Malaysia, ³ University of Technology Sydney, Australia	TuB2-3 11:30-11:45	Time series analysis of aersol optical depth over the arabian peninsula from modis data 2003-2018 Amna Ahaqbi and Abdelgadir Abuelgasim The Univ. of Al Ain, UAE	TuC2-3 11:30-11:45	Physio-climatic classification of bangladesh's rice paddy field for alternate wetting and drying (AWD) Md Rahedul Islam and Wataru Takeuchi The Univ. of Tokyo, Japan
TuA2-4 11:45-12:00	Canopy height model estimation using airborne laser radar and high resolution image in Borneo tropical reserve forest Mohd Yussainy Md Yusop ⁷² , Mohd Nadzri Md Reba ¹ and Mohd Rizaludin Mahmud ¹ ¹ Universiti Teknologi Malaysia, Malaysia, ² Forestry Department of Peninsular Malaysia, Malaysia	TuB2-4 11:45-12:00	Environmental implications of wheat residue burning a case study of Haryana state, India R.S. Hooda, Nidhi Kundu and Preksha Singh HARSAC, India	TuC2-4 11:45-12:00	Automatic mapping of crop intensity and seasonal dynamics across south Asia using 15 years of MODIS imagery Brogendra Mishra Paschimanchal Campus, Nepal
TuA2-5 12:00-12:15	Mangrove leaf area index (LAI) mapping using worldview-2 imagery in Perancak Estuary, Bali, Indonesia Aldo Restu Agi Prananda ¹ , Muhammad Kamal ¹ and Denry Wijaya Kusuma ⁴ ¹ Universitas Gadjah Mada, Indonesia, ² The Ministry of Maritime Affairs and Fisheries, Indonesia	TuB2-5 12:00-12:15	Air quality assessment of Yangon city Khin Mar Yee ¹ , Mu Mu Than ¹ , Kyi Lint ¹ , Mar Lar Han ² , Ye Lin Aung ¹ and Thu Thu Htwe ² 'Dagon University, Myanmar, 'Ministry of Natural Resources and Environmental Conservation, Myanmar	TuC2-5 12:00-12:15	Application of multi+temporal radarsat-2 backscattering for monitoring of paddy- planting stages in Malaysia Muhammad Nazir Siham, Noryusdiana Mohamad Yusoff, Zuraimi Suleiman and Nurul Aina Abdul Aziz Malaysian Remote Sensing Agency, Malaysia
		TuB2-6 12:15-12:30	Wetland information system using geo- informatics in Himachal Pradesh, India Sharma Alka ¹ , Panigrahy Sushma ² , Singh T. S. ² , Patel J. G ² and Tanwar H ⁴ ¹ SCSTE; India, ² ISRQ, India	TuC2-6 12:15-12:30	Remote sensing based rice crop insurances as an operational service in India using sentinel 1a and ORYZA crop simulation model S. Pazhanivelan', K.P.Ragunath', N.S. Sudarmanian', R. Kumaraperumal', Tri setiyono ² and ED. Quicho ²

^a The Univ. of Tamil Nadu, India,² International Rice Research Institute, Philippines

	Room D		Room E		Room F
Session Title	[TuD2] Remote Sensing for Disaster Management 4	Session Title	[TuE2] New Sensors and Platforms 1	Session Title	[TuF2] GIS & GNSS 4
Session Chair	Prof. Mazlan Hashim (Universiti Teknologi Malaysia, 81310 UTM Johor Bahru, Malaysia)	Session Chairs	Prof. Yi-Hsing Tseng (National Cheng Kung University, China Taipei) Dr. Wenjuan Zhang (Aerospace Information Research Institute, CAS, China)	Session Chair	Prof. Pei-Fen Kuo (National Cheng Kung University, China Taipei)
Date	October 15 (Tuesday)	Date	October 15 (Tuesday)	Date	October 15 (Tuesday)
Time	11:00-12:30	Time	11:00-12:30	Time	11:00-12:30
TuD2-1 11:00-11:15	Integration of sentinel-2 spectral information with high spatial resolution planetscope imagery for wildfire damage assessment Minho Kim and Yongil Kim Seoul National Univ, Korea	TuE2-1 11:00-11:15	Low-cost UAV for determination of horizontal and vertical coordinates changes near coastal area Khairul Nizam Abdul Maulud, Faiz Arif and Abdul Aziz Ab Rahman Universiti Kebangsaan Malaysia, Malaysia	TuF2-1 11:00-11:15	Integration of GIS, GPS AND CCTV into a tracking APP system: developing a search tool for missing seniors with dementia Pei-Fen Kuo and Chui-Sheng Chiu <i>Cheng Kung University, China Taipei</i>
TuD2-2 11:15-11:30	Satellite-based detection of oil spill signature residual using synergy multispectral images of landsat-8 OLI and landsat-7 ETM+ Jamal Jasim Abdulla Althawadi and Mazlan Hashim Universiti Teknologi Malaysia, Malaysia	TuE2-2 11:15-11:30	Age estimate for the mounded tomb of Himiko by shape analysis Susumu Ogawa', Yukiya Taniguchi ² and Toshiro Harunan ³ 'Institute of Spatial Technology, Japan, ² Univ. of Tokyo, Japan, ³ Nagasaki Univ, Japan	TuF2-2 11:15-11:30	An application of HEC-RAS model and geographic information system on flood maps analysis: case study of Upper Yom River Suthipat Wannapoch ¹ , Sarintip Tantanee ¹ , Sombat Chuenchooklin ¹ , Karnonchat Seejata ¹ and Weerayuth Pratoomchaf ² 'Naresuan University, Thailand, ² King Mongkut's University of Technology Thonburi, Thailand
TuD2-3 11:30-11:45	Flood risk assessement as affected by land use change for policy intervention : case of quaioit river watershed in Northern Philippines Carlos Pascual and Julius Jimenez Mariano Marcos State University, Philippines	TuE2-3 11:30-11:45	Evaluation of GK2A AMI radiometric performance after the launch Kyoung-Wook Jin and Koon-Ho Yang Korea Aerospace Research Institute, Korea	TuF2-3 11:30-11:45	Harnessing the potential of mobile devices as field data collection tool in a satellite-based rice monitoring system Amel B. Rala, Tri Setiyono, Gene Romuga, Emma Quicho, Comelia Garcia, Aileen Maunahan and Emmail Manalo International Rice Research Institute, Philippines
TuD2-4 11:45-12:00	Flood hazard assessment using fuzzy analytic hierarchy process: a case study of bang rakam model in Thailand Aphitha Yodying, Kamonchat Seejata, Sasithon Chatsudrat, Polpreecha Childburee, Nattapon Mahavik, Charatdao Kongmuang and Sarintip Taritaree Naresuan University, Thailand	TuE2-4 11:45-12:00	Image simulation for GF-5 visual and infrared multispectral sensor Zhang Wenjuan', Shi Mengmeng', Zhang Bing ¹³ , Li Yunduan' and Dai Haishan ⁴ 'Institute of Remote Sensing and Digital Earth, China, ³ Xian University of Science and Technology, China, ³ University of Chinese Academy of Sciences, China, ⁴ Shanghai Institute of Satellite Engineering, China	TuF2-4 11:45-12:00	Applying geographical information system to identify evacuation zones in case of tsunami in Da Nang city, Vietnam Bui Quang Binh Institute of Regional Sustainable Development, Vietnam
TuD2-5 12:00-12:15	Landslide risk assessment in part of Ukhimath, Rudraprayag district, Uttarakhand, India Shivangi Tata Institute of Social Science, India	TuE2-5 12:00-12:15	A drone-based system for small-scale rice field monitoring Baba Barus ¹ , Chiharu Hongo ² , Bambang H. Trisasongko ¹ and La Ode S. Iman ¹ ¹ Bogor Agricultural University, Indonesia, ² Chiba University, Japan	TuF2-5 12:00-12:15	Genealogical aggregation and ancestral domain management: a web-based GIS implementation in a developing country Vicente A. Pitogo ¹ , Glenn H. Lahayon ² and Giovanni T.Esma ¹ ¹ Caraga State University, Philippines, ² Office of the Civil Defense, Philippines
TuD2-6 12:15-12:30	Pest and plant disease identification in greenhouse using UAV images Tzu-Ming Feng and Chao-Hung Lin National Cheng Kung University, China Taipei	TuE2-6 12:15-12:30	Quantifying diwata-1 and diwata-2 image degradation through spatial resolution using edge detection method Olivar. Fritz. Rhaem, Vergel. Kaye Kristine and Magallon. Benjamin University of the Philippines. Philippines	TuF2-6 12:15-12:30	On the consistency of GIPSY-X and GIPSY-OASIS with samples Dingiyun Wang and Peter TY. Shih National Chiao Tung University, China Taipei

October 15 (Tuesday) / 13:30-15:00

	Room A		Room B		Room C
Session Title	[TuA3] Remote Sensing of Forestry 5	Session Title	[TuB3] Remote Sensing of Hydrology and Water Resources 1	Session Title	[TuC3] SAR Data Processing
Session Chair	Prof. Kyusung Lee (Inha University, Korea)	Session Chair	Prof. Wonkook Kim (Pusan National University, Korea)	Session Chair	Dr. Iman Heidarpour Shahrezaei (Korea Polar Research Institute (KOPRI), Korea)
Date	October 15 (Tuesday)	Date	October 15 (Tuesday)	Date	October 15 (Tuesday)
Time	13:30-15:00	Time	13:30-14:45	Time	13:30-15:00
TuA3-1 13:30-13:45	Forest clearance monitoring with dual polarized SAR data in the Peatlands of Insular southeast Asia Chenghua Shi and Soo Chin Liew National University of Singapore, Singapore	TuB3-1 13:30-13:45	Subsurface water level observation of croplands in Myanmar with KBDI Kyaw Sann Oo' and Wataru Takeuchi ² 'Kayah Phoo Group Company Limited, Myanmar, ² The Univ. of Tokyo, Japan	TuC3-1 13:30-13:45	SAR processing by chirp scaling algorithm(CSA) based general algorithm Dong-Hyun Kim, Do Chul Yang, Ho Ryung Jung and Dong Han Lee Korea Aerospace Research Institute, Korea
TuA3-2 13:45-14:00	Mapping and estimation of grass above- ground Biomass (GAB) using Sentinel 2A satellite data Isa Muhammad Zumo ¹²² and Mazlan Hashim ¹² ¹² Geoscience & Digital Earth Centre, Malaysia, ² Universiti Teknologi Malaysia, ³ Federal Polytechnic, Nigeria	TuB3-2 13:45-14:00	Characteristics of 2-d convective structure in Yom-nan river basin, Thailand: an analysis using radar data on heavy rainfall events Nattapon Mahavik, Sasithon Chatsudarat, Aphittha Yodyng and Karmonchat Seejata The Univ. of Phitsanulok, Thailand	TuC3-2 13:45-14:00	Automated extraction of water bodies from alos-2 images using u-net and rough training set Valibrav Kaliyar and Masahiko Nagai The Univ. of Yamaguchi, Japan
TuA3-3 14:00-14:15	Potential of hyperspectral remote sensing data in assessing chlorophyll content of mature oil palm with linear discriminant analysis classifier Amiratul Diyana Amiruddin, Farrah Melissa Muharam, Mohd Hasmadi Ismai Ismai and Fan Vgai Paing Universiti Putra Malaysia, Malaysia	TuB3-3 14:00-14:15	Water environment suitability for mari- culture using landsat image 8 OL/TIRS Karunia Pasya K, Shafa Arum Wulandari, Shelly Yeni Saputri, Yuana Dysa Permatasari, Zulfian Isnaini Cahya, Wirastuti Widyatmanti and Muhammad Chaidir Undu The Univ. of Yogyakarta, South Sulawesi	TuC3-3 14:00-14:15	Comparative accuracy assessment of LiDAR and ifsar dem on stratified terrain types Joseph E. Acosta, Gus Kali R. Oguis and Abigail June I. Agus The Univ. of Davao City, Philippines
TuA3-4 14:15-14:30	Analysis of land use/land cover change in Daknong province using multi- temporal satellite images and Markov Nguyen Thi Tharh Huong i, Ngo Thi Thuy Phuong ¹ and Nguyễn Thị Hông Điệp ² '' Tay Nguyen Univ, Vietnam, ² Can Tho Univ, Vietnam	TuB3-4 14:15-14:30	Comparison of global forecast systems to field data using GIS and its application on watershed management and community development Engr. Mark Paulo Alcala The Univ. of Quezon City, Philippines	TuC3-4 14:15-14:30	Investigation of ununiform ship phase observed in high-resolution tandem-X ATI-SAR using electromagnetic simulation Seungchul Lee, Dukjin Kim and Ki-mook Kang School of Earth and Environmental Sciences, Korea
TuA3-5 14:30-14:45	Remote sensing monitoring of land use/ cover change in the Nakhon Ratchasima Plateau, Thailand based on long time Sequence Landsat satellite imagery Rui Xi and Zhanyu Liu Hangzhou Normal University, China	TuB3-5 14:30-14:45	A study on the applicability of rededgem camera for water color observation Workook Kim ¹ and Sunghun Jung ² ¹ The Link: of Busan, Korea ² The Unix of Dongshin, Korea	TuC3-5 14:30-14:45	A reflection symmetry approximation of multi-look polarimetric SAR data and its application to freeman-durden decomposition Wentao An ¹² and Mingsen Lin ¹² ¹ National Satellite Ocean Application Service, China, ² SOA, China
TuA3-6 14:45-15:00	Vegetation indices comparison for Mangrove above-ground carbon stock estimation using worldview-2 image in Perancak Estuary, Bali, Indonesia Dan Utari, Muharmad Kamal' and Frida Sdik ² ¹ Universitas Gadjah Mada, Indonesia, ² The Ministry of Maritime Affairs and Fisheries Jembrana, Indonesia			TuC3-6 14:45-15:00	A deep neural network slope reduction model on Sentinel-1 images for water mask extraction Marios Mpakratsas, Anastasia Mourntzidou, Ilias Galampoukdis, Stefanos Vrochidis and Ioannis Kompatsiaris Centre for Research and Technology Hellas, Greece

	Room D		Room E		Room F
Session Title	[TuD3] Remote Sensing for Disaster Management 5	Session Title	[TuE3] PNew Sensors and Platforms 2	Session Title	[TuF3] GIS & GNSS 5
Session Chair	Prof. Shou-Hao Chiang (Center for Space and Remote Sensing Research, National Central University of Taiwan, China Taipe)	Session Chairs	Dr. Manzul Hazarika (Asian Institute of Technology, Thailand) Dr. Gay Jane Perez (University of the Philippines Diliman, Philippines)	Session Chair	Prof. Changjae Kim (Myongji University, Korea)
Date Time	October 15 (Tuesday) 13:30-14:45	Date Time	October 15 (Tuesday) 13:30-14:30	Date Time	October 15 (Tuesday) 13:30-15:00
TuD3-1 13:30-13:45	Measuring land subsidence in Bangkok and its Vicinity area using sentinel-1 SAR data for InSAR iime series analysis Anuphao Aobpaet ¹ , Pattama Phodee ² and Angkana Pumpuang ¹ 'Kasetsart University, Thailand, ² Burapha University, Thailand	TuE3-1 13:30-13:45	Satellite attitude offset estimation for kompsat-6 Dochul Yang, Byoung-Gyun Lim and Donghyun Kim Korea Aerospace Research Institute, Korea	TuF3-1 13:30-13:45	Effect of climate change on site suitability and reliability of small farm reservoir in Oriental Mindoro, Philippines Kobe Conrad R. Abellera, Ronaldo B. Saludes, Michel G. Acosta, Roger A. Luyun Jr. and Rossana Marie C. Amongo University of the Philippines Los Baños, Philippines
TuD3-2 13:45-14:00	The role of environmental and epidemiological in mapping susceptibility malaria disease in Ranau district using remote sensing and GIS Shimatun Jumani Ibrahimi, Norimariah Mazelan, Zuraimi Suleiman, Jenarun Jelip, Mohd Hafizi Abdul Hamid ² , Hazil Sardi Soljano ¹ , Ong Chia Ching ² and Ahmed Shah Ibrahim ² <i>Malaysian Remote Sensing Agency, Malaysia</i> , ² Ministry of Health, Malaysia	TuE3-2 13:45-14:00	Effects of orbit degradation to DIWATA-2 data products and operations Monay, Kristian R. and Magallon, Benjamin Jonah P. University of the Philippines Diliman, Philippines	TuF3-2 13:45-14:00	Exploring the topographic characteristics of settlement toponyms in Taiwan Jinn-Guey Lay ¹ , Cheng-Ru Chen ⁷ , Chia-Jung Wu ³ , We-Chia Huang ¹ and Ray Y: Chuang ¹ ¹ National Taiwan University, China Taipei, ³ Tunghai University, China Taipei
TuD3-3 14:00-14:15	The use of soil moisture active passive (SMAP) data for LARGE-SCALE Fire management over Gang-won Province Ju-Hyoung Lee Korea University, Korea	TuE3-3 14:00-14:15	Low cost high accurate areal mapping with custom built RTK drone Sasarika L Madawalagama, Manzul K. Hazarika and Kavinda Gunasekara Asian Institute of Technology Thailand	TuF3-3 14:00-14:15	Identification of road accident recurrence in Sri Racha district, Chon Buri province Narong Pleerux and Attawut Nardkulpat Burupha University, Thailand
TuD3-4 14:15-14:30	Effects of topographic datasets on physically based landslide model at a hyper local slop Aziz Dermawan and Shou-Hao Chiang National Central University, China Taipei	TuE3-4 14:15-14:30	Evolution of remote sensing: what's next? Abhineet Jain <i>Maxar, Singapore</i>	TuF3-4 14:15-14:30	Use of open data kit and android devices for fast and easy data collection - a case study from the Philippines Ubo Pakes ³ , Rirea Subong ² , Mary Arn Gumban ² , Klaus Schmitt and Mari Tits Estomata ¹ ¹ Deutsche Gesellschaft für Internationale Zusammenarbeit, Philippines, ² University of the Philippines Iolio, Philippines, ² University of the Philippines Cebu, Philippines
TuD3-5 14:30-14:45	The recent situation of space technologies for monitoring and management disaster Moharmad Rukieh AAFAQ Establishment for Trading and Consulting Syria			TuF3-5 14:30-14:45	Dynamic indoor space reconstruction using temporal point clouds Riku Nozaki and Masafumi Nakagawa Shibaura Institute of Technology, Japan
				TuF3-6 14:45-15:00	A modified DRASTIC model in GIS for assessing groundwater vulnerability to nitrate contamination in Malolos City, Bulacan, Philippines

Riku Nozaki and Masafurni Nakagawa University of the Philippines Diliman, Philippines

October 16 (Wednesday) / 09:00-10:30

	Room A		Room B		Room C
Session Title	[WeA1] Remote Sensing for Regional Study 1	Session Title	[WeB1] Remote Sensing of Hydrology and Water Resources 2	Session Title	[WeC1] Algorithms for Remote Sensing Application 1
Session Chair	Prof. Wataru Takeuchi (University of Tokyo, Japan)	Session Chair	Dr. Tharapong Phetprayoon (Nakhon Ratchasima Raiabhat University Thailand)	Session Chair	Prof. Hoonyol Lee (Kangwon National University, Korea)
Date Time	October 16 (Wednesday) 09:00-10:30	Date Time	October 16 (Wednesday) 09:00-10:30	Date Time	October 16 (Wednesday) 09:00-10:30
WeA1-1 09:00-09:15	Geological mapping in Morozumi Range and Helliwell Hills areas, Northern Victoria Land (NVL), Antarctica using remote sensing imagery Amin Beiranvand Pour ^{1,5} , Yongcheol Park ¹ , Jong Kuk Hong ¹ , Aidy M Muslim and Biswajeet Padhan ³ ¹ Korea Polar Research Institute, Korea, ² Universiti Malaysia Tengganu, Malaysia, ³ University of Technology Sychey, Australia	WeB1-1 09:00-09:15	An integrated geoinformatics techonology with hydrological model to impact assessment of land use change on runoff in the upper Lam Ta Khong watershed Tharapong Phetpraycon Nakhon Ratchasima Rajabhat University, Thailand	WeC1-1 09:00-09:15	Accounting for temporal information from dense time-series coarse-scale satellite data for spatio-temporal downscaling Yeseu Km and No-Wook Park Inha University Korea
WeA1-2 09:15-09:30	Object-based land USE/LAND cover change detection using spatio - temporal images - a case study in Metropolitan City of Istanbul, Turkey Taskin Kavzoglu, Elif Ozlem Yilmaz and Hasan Tonbul Gebze Technical University, Turkey	WeB1-2 09:15-09:30	Irrigation monitoring using remote sensing, GIS and hydrologic models in a NIA-UPRIIS turn-out service area during the 2018 dry season Pristine E. Mabalot' and Enrico C. Paringif ⁶ ¹ /Philippine Rice Research Institute, Philippines, ² University of the Philippines, Philippines	WeC1-2 09:15-09:30	Study on extracting precipitation information using infrared bands of Himawari-8 Yuko Kishida, Keiji Imaoka, Hidenori Shingin and Kakuji Ogawara Yamaguchi Uhiversity, Japan
WeA1-3 09:30-09:45	Analyzing spatial variability of soil properties using GIS-based geostatistical method for a cluster of five villages of Telangana State, India Abhitash Marqada and T.Vijaya Lakshmi JNTUH, India	WeB1-3 09:30-09:45	Drainage canal map detection of tropical peatlands over Indonesia by PALSAR-2 image Daik Shimizu, Wataru Takeuchi and Haemi Park The University of Tokyo, Japan	WeC1-3 09:30-09:45	Comparative analysis on interpolation methods for bathymetric data gaps Joseph E. Acosta, Vicente Calag, Zarah Jean Diche, Christine Lou Lazaga, Tisha Mae Lopena, Daiavke Tatsuda and Cus Kail R. Oguis University of the Philippines Mindanao, Philippines
WeA1-4 09:45-10:00	Debris flow susceptibility mapping and exposure assessment in Uttarakhand State, India Rajith Sachinthaka, Kavinda Gunasekara, Lakmal Deshapiya and Kuo CHieh Chao Asian Institute of Technology, Thailand	WeB1-4 09:45-10:00	Review of urban water resilience in Java island, utilizing CHIRPS data modeling Theresia Retno Wulan, Yosef Prihanto and Taufik Hidayatullah Geospatial Information Agency (BIG), Indonesia	WeC1-4 09:45-10:00	Anatomy of overlay analysis in examining vulnerability factors of flooded area in Bago region, Myanmar Mu Mu Than, Khin Mar Yee ¹ , Kyi Lint ¹ , Tin Tin Mya ² and Thidar Wi ² ¹ Dagon Univ, Myanmar, ² Pathein Univ, Myanmar, ³ East Yangon Univ, Myanmar
WeA1-5 10:00-10:15	Land cover classification and change detection using landsat images and maximum likelihood classification: the case of Davao City, Southern Philippines (1996-2016) Jessele Lyn C. de Ramos and Joseph E. Acosta University of the Philippines Mindana, Philippines	WeB1-5 10:00-10:15	A study on the importance-based calculation of river facility maintenance cycle Eurg-Joon Lee, Seurg-Wook Choi, Jang-Bae Lee and Hyeourg-Wook Choi <i>GEO C&I Co., Ltd, Korea</i>	WeC1-5 10:00-10:15	On the development an object-oriented tracking method for thunderstorms during summer monsoon season based on radar reflectivity over the middle of Thailand Nattapon Mahavik, Sasithon Chatsudarat, Aphittha Yodyng and Karnonchat Seejata Naresuan University, Thailand
WeA1-6 10:15-10:30	Geophysical changes detection by remote sensing in Alaminos river Pangasinan, Philippines Annie Melinda Paz-Alberto, Edmark P. Bulaong, Ranilo B. Lao and Eleazar V. Raneses Central Luzon State University, Philippines	WeB1-6 10:15-10:30	Earth observations to monitor water budgets for river basin management: case study in Murray–Darling Basin Kalum Priyanath Udagepola Scientific Research Development Institute of Technology Australia	WeC1-6 10:15-10:30	Primary cloudbow retrieval of cloud droplet size distribution from POLDER Huazhe Shang ¹² , Husi Letu ² , Jérôme Riedi ¹ , François-Marie Brécon ² 'Univ. Lille, France ² Chinese Academy of Sciences, China, ³ Laboratoire des Sciences du Olimat et de Tervironnement, France

	Room D		Room E		Room F
Session Title	[WeD1] Remote Sensing for Disaster Management 6	Session Title	[WeE1] Machine Learning for Remote Sensing Applications 1	Session Title	[WeF1] GIS & GNSS 6
Session Chair	Dr. Younghyun Cho (K-water (Korea Water Resources Corporation), Korea)	Session Chair	Prof. Chih-Da Wu (National Cheng Kung University, China Taipei)	Session Chair	Prof. Anjin Chang (Texas A&M University-Corpus Christi, United States of America)
Date	October 16 (Wednesday)	Date	October 16 (Wednesday)	Date	October 16 (Wednesday)
Time	09:00-10:15	Time	09:00-10:30	Time	09:00-10:15
WeD1-1 09:00-09:15	Validating the agricultural drought impacts in the Philippines during the 2019 El Niño Odette B. Enricuso, Gay Jane P. Perez, Raymond Jess G. Goliat, Harry Casimir E. Merida, Cara Patricial. Canlas and Arlo Jayson C. Sabulto University of the Philippines Diliman, Philippines	WeE1-1 09:00-09:15	Image recognition applied to the Zhuoshui river basin runoff variations Chia Cheng Yeh ¹² , Yang-Lang Chang ² , Jin-Cheng Fu ³ and Chun-Mao Huang ¹ 'National Science and Technology Center for Disaster Reduction, China Taipei ² National Taipei University of Technology, China Taipei	WeF1-1 09:00-09:15	Mapping of ground-level ozone distribution and determining suitable locations for monitoring stations in the national capital region, Philippines Areanne Katrice K. Umai, ins Anne M. Ventura and Edgardo G. Macatulad University of the Philippines, Philippines
WeD1-2 09:15-09:30	Landslide susceptivbility modeling with frequency ratio, logistic regression, artificial neural network and the combination method Van-Trung Chu, Shou-Hao Chiang and Than- Huang Lin National Central University, China Taipei	WeE1-2 09:15-09:30	Integration of self-organizing map and machine learning methods to extract shorelines from Landsat-8 images Bulent Bayram ¹ and Abdulkadi Iroc ⁴ ¹ Yildiz Technical University, Turkey, ² Solvo Tek Engineering and IT Services, Turkey	WeF1-2 09:15-09:30	The spatial relationship between weather and oncidium production Hafsah Fatihul Ilmy, Pei-Fen Kuo and Tzu-En Huang National Cheng Kung University, China Taipei
WeD1-3 09:30-09:45	Tropical cyclone genesis detection using COMS data with machine learning approaches Seongmun Sim and Jungho Im Ulsan National Institute of Science and Technology, Korea	WeE1-3 09:30-09:45	Updating cadastral maps using deep convolutional networks and hyperspectral imaging Ah-Ram Song Seula Park and Yong-II Kim Seoul National University, Korea	WeF1-3 09:30-09:45	Investigation and mapping the relationship between 4g signal strength and topography for different operators Eyup Kaya, Sinas Kaya and Dursun Zafer Seker <i>ITU, Turkey</i>
WeD1-4 09:45-10:00	Spectral simulation on remote sensing reflectance of petroleum-contaminated water body using hydrolight Junje Yang, Miaofen Huang, Weijian Luo, Yang Zhuang, Bingcai Chen and Zhonglin Wang Guangdong Ocean University, China	WeE1-4 09:45-10:00	Hyperspectral image classification using spectral LSTM networks Simrarijit Singh and Singara Singh Kasana Thapar Institute of Engineering and Technology, India	WeF1-4 09:45-10:00	Automated land cover and elevation profiling using transect resource map Melbert R. Bonotan and Rolyn C. Daguil <i>Caraga State University, Philippines</i>
WeD1-5 10:00-10:15	Analyzing the relationship between soil water triggering index and landslide frequency- a case study of Typhoon Morakot Hung-Chu Ho and Shou-Hao Chiang National Central University, China Taipei	WeE1-5 10:00-10:15	Genetic algorithm for Tsunami impacts on water mass variations Maged Marghany Geomatika University College, Malaysia	WeF1-5 10:00-10:15	Factor analysis and spatial pattern of convenience store in Nakhon Pathom, Thailand Suriporn Charungthanakij ¹ , Intareeya Sutthivanich ² and Udorwit Mareewan ² ¹ Silpakorn University, Thailand, ² Suranaree University of Technology, Thailand
		WeE1-6 10:15-10:30	Particle swarm optimization algorithm for automatic detection of internal wave of 2004 Tsunami Maged Marghary Geomatika University College, Malaysia		

October 16 (Wednesday) / 11:00-12:30

	Room A		Room B		Room C
Session Title	[WeA2] Remote Sensing for Regional	Session Title	[WeB2] Remote Sensing of Hydrology and Water Resources 3	Session Title	[WeC2] Algorithms for Remote Sensing
Session Chair	Prof. Wataru Takeuchi (University of Tokyo, Japan)	Session Chair	Dr. Junhwa Chi (Korea Polar Research Institute, Korea)	Session Chair	Prof. Yongil Kim (Seoul National University, Korea)
Date Time	October 16 (Wednesday) 11:00-12:30	Date Time	October 16 (Wednesday) 11:00-12:30	Date Time	October 16 (Wednesday) 11:00-12:15
WeA2-1 11:00-11:15	Cartometric mapping methods of village boundary in tegineneng sub-district, pasawaran regency, Lampung Province, Indonesia Theresia Retno Wulan ¹ , Yosef Prihanto ¹² and Taufik-Hidayatullah ¹ 'Geospatia Information Agency, Indonesia, ² Universitas Indonesia, Indonesia	WeB2-1 11:00-11:15	Geospatial analysis of land use change as affected by groundwater hydrology using SWAFMODFLOW modeling Carlos Pascual and Julius Jimenez. Mariano Marcos State University, Philippines	WeC2-1 11:00-11:15	Determination of parameters for evergreen broadleaf forests in gross primary production capacity estimation algorithm Aika Wakai, Rinako Yoshioka and Kanako Muarnatsu Nara Women's University, Japan
WeA2-2 11:15-11:30	Estimated location of yamatal country with remote sensing Haruhiro Shiraish ¹ , Susumu Ogawa ² and Yukiya Taniguchi ² <i>'Fishery Agency, Japan, ²Institute of Spatial</i> <i>Technology, Japan, [*]The University of Tokyo,</i> <i>Japan</i>	WeB2-2 11:15-11:30	Evaluation of SEBAL and metric based evapotransporation in arid region of Samail, Oman Ahsan Ali and Yaseen Al-Mulla Sultan Qaboos University, Oman	WeC2-2 11:15-11:30	A preliminary study on utilizing 3D vector terrain data for satellite visibility analysis in urban area Ya-Hsuan Lu and Jen-Yu Han National Taiwan University, China Taipei
WeA2-3 11:30-11:45	Utilization of sentinel satellite for vertical deformation monitoring in Semangko Fault-Indonesia Atriyon Jutzarka ¹² and Harintaka ¹ 'Universitas Gadjah Mada, Indonesia, ² Indonesian National Institute of Aeronautics and Space, Indonesia	WeB2-3 11:30-11:45	Extent and cause of the shrinkage of Loktak Lake in Imphal Valley, NE India: insights from integrated remote sensing- and field-based investigations Pradeep K Goswami and Alexander Singh Kshetimayum Kurnaun University.India	WeC2-3 11:30-11:45	Hotspot analysis on marketing assessment of mobile phone shops within Dagon Myotit (North) Kyi Lint', Kini Mar Yee', Mu Mu Than', May Myat Thu', Mar Lar Han' and Moe Thidar Htwe ² 'Dagon University, Myanmar, ² Yadanarpon University, Myanmar
WeA2-4 11:45-12:00	Land suitability assessment for Poultry farms in Davao City using geographic information system (GIS) and Fuzzy Analytic Hierarchy Process (FAHP) Ken Neth Marie Labra, Joseph Acosta, Leo Manuel Estaña and Maynard Usares University of the Philippines Mindanao, Philippines	WeB2-4 11:45-12:00	Systematic assessment of watershed geomorhology using digital terrain analysis for detecting gullies, riparian areasm and upland depressions Joseph E. Acosta ¹ , Ace Niño B. Guieb and Gus Kali R. Oguis 'University of the Philippines Mindanao, Philippines	WeC2-4 11:45-12:00	The distribution of supercooled water clouds from Himawari-8 measurements and optical properties of its particles Ziming Wang ¹² , Husi Letu ¹ and Huazhe Shang ¹³ ¹ Chinese Academy of Sciences, China, ³ Unive Lille, France
WeA2-5 12:00-12:15	The use of drone photogrammetry and Multi-criteria Decision Making (MCDM) to evaluate of dengue breeding area in Khon Kaen City, Thailand Thatsalak Phongsuriyachay and Chattichai Waisurasingha Khon Kaen University, Thailand	WeB2-5 12:00-12:15	Modelling of land use land cover dynamics for water yield using remotes sensing within a watershed Babangida Ba ya ¹² and Mazlan Hashim ¹ ¹ Universiti Teknologi Malaysia, Malaysia, ² Federal Polytechnic, Nigeria	WeC2-5 12:00-12:15	Adaptive change detection method with Bayesian approach for very-high resolution satellite images Donna Monica Indonesian National Institute of Aeronautics and Space, Indonesia
WeA2-6 12:15-12:30	Land use dynamics and landscape change pattern on the patch dry afromontane forest hydrology of Northern Ethiopia Belay Manju ²⁷ , Sungeun Cha ³ and WooKyun Lee ¹ ⁷ Korea University, Korea, ² Ethiopian Environment and Forest Research Institute, Korea	WeB2-6 12:15-12:30	Feature extraction and analysis of river change detection based on remote sensing images Yu-Chan Lee', Fang-Shii Ning' and Hao-Che Ho ² ¹ National Chengchi University, China Taipei ² National Taiwan University, China Taipei		

	Room D		Room E		Room F
Session Title	[WeD2] Remote Sensing for Disaster Management 7	Session Title	[WeE2] Machine Learning for Remote Sensing Applications 2	Session Title	[WeF2] GIS & GNSS 7
Session Chair	Prof. Chul-Soo Ye (Far East University, Korea)	Session Chairs	Prof. Bulent Bayram (Yildiz Technical University, Turkey) Dr. Singara Singh (Thapar Institute of Engineering and Technology, India)	Session Chairs	Prof. Pei-Fen Kuo (National Cheng Kung University, China Taipe) Dr. Sameer Saran (IIRS ISRO, India)
Date Time	October 16 (Wednesday) 11:00-12:15	Date Time	October 16 (Wednesday) 11:00-12:30	Date Time	October 16 (Wednesday) 11:00-12:30
WeD2-1 11:00-11:15	Offsetting the increase in soil erosion due to rising R-factors by decreasing C-factors of bare lands TseWeiLo and Walter Chen National Taipei University of Technology, China Taipei	WeE2-1 11:00-11:15	A neural network-based land use regression model to estimate spatial- temporal variability of Nitrogen dioxide PeiYi Wong ¹ , Chi-Da Wu ² and Huey-Jen Su ¹ /National Cheng Kung University, China Taipei, ² National Health Research Institutes, China Taipei	WeF2-1 11:00-11:15	Rapid acquisition and analysis of disaster information from social media You-Rui Liu and Pai-Hui Hsu National Taiwan University, China Taipei
WeD2-2 11:15-11:30	Observing 2018 M _w 6.4 Hualien earthquake surface displacement with SBAS InSAR and GNSS Chur-Kai Hung and Peter TV. Shih National Chiao Tung University, China Taipei	WeE2-2 11:15-11:30	Efficiency of different machine learning methods for shoreline extraction from UAV images Bulent Bayran ¹ , Dursun Zafer Seker ² and Burak Akpinar ¹ 'Yildiz Technical University, Turkey, ² Istanbul Technical University, Turkey	WeF2-2 11:15-11:30	Time series analysis of groundwater levels using geographic information systems in AI Ain region, in the united information systems in AI Ain region, in the United Arab Emirates A Abuelgasim and M. Elkamali United Arab Emirates University, UAE
WeD2-3 11:30-11:45	Development of decision-making tools for drought monitoring and early warning in Kyrgyzstan Sugyeong Park, Sea Jin Kim, Eunbeen Park, Hangnan Yu, Sungeun Cha, Hyun-Woo Jo, Chul- Hee Im, Halim Lee and Woo-Kyun Lee Korea University, Korea	WeE2-3 11:30-11:45	Comparison of LUR-based and ANN- based PM _{2.5} concentration estimation over Taipei metropolis Devinta Heitza, Chao-Hung Lin and Chih-Da Wu National Cheng Kung University, China Taipei	WeF2-3 11:30-11:45	Twitter analytics for integrated research in biodiversity Sameer Saran ¹ , Laksh Singla ² and Priyanka Singh ¹ ¹ /SRQ, India, ² Birla Institute of Technology and Science Pilani, India
WeD2-4 11:45-12:00	Integration of multi-satellite indices for drought monitoring in diverse climate zone over East Asia Bokyung Son ¹ , Sumin Park ¹ , Jungho Im ¹² , Sechui Park ¹ and Yinghai Ke ³ ¹ UIsan National Institute of Science and Technology (UNIST), Korea ² State University of New York College of Environmental Science and Forestry, USA ³ Capital Normal University, China	WeE2-4 11:45-12:00	The application of machine learning algorithms to estimate forest canopy cover Wim Ikbal Nursal, Felliks Tampinongkol, Sahid Hudjimartsu, Vud Setiawan and Lilik Budi Prasetyo IPB University, Indonesia	WeF2-4 11:45-12:00	Participatory geographic information system (PGIS) for developed the online map of historical source in World War II, Pak Phraek Road Community, Kanchanaburi, Thailand Komsan Sriboonnuang, Narong Punkong and Malinee Kumkua Kanchanaburi Rajabhat University, Thailand
WeD2-5 12:00-12:15	Spatiotemporal evaluation of historical drought in the Philippines Michael Angelo P. Valete ¹ , Gay Jane P. Perez ¹ , Odette B. Erricuso ¹ and Josefino C. Corniso ¹² 'Intiversity of the Philippines Diliman, Philippines, ² NASA Goddard Space Flight Center, United States	WeE2-5 12:00-12:15	Neural network for higher wind speed estimation from multi-parameter radar altimetry data Syarawi Sharon ¹³ and Mohd Nadzi Md Reba ¹ ¹ Universiti Teknologi Malaysia, Malaysia, ² Universiti Sains Malaysia, Malaysia	WeF2-5 12:00-12:15	Development of dengue outbreak monitoring system using GIS and mobile reporting Jurrie B. Matias and Jesterlyn Q. Timosan <i>Caraga State University, Philippines</i>
WeD2-6 12:15-12:30	Application of GPM imerg satellite-based precipitation products for flood runoff simulation in a DAM Watershed Younghyun Cho, Joon-Woo Noh and Eul-Rae Lee <i>Kwater Research Institute, Korea</i>	WeE2-6 12:15-12:30	Machine learning approaches to estimate chlorophyll-a concentration using GOCI satellite data Hyun-Young Choi ¹ , Young-Jun Kim ¹ and Jungho- Im ² 'Ulsan National Institute of Science and Technology (UNIST), Korea, ² State University of New York College of Environmental Science and Forestry, USA	WeF2-6 12:15-12:30	Spatial patterns identification of land prices using spatial cluster analysis methods for submarket allocation Alfita Puspa Handayani, Albertus Delar and Irawan Soemarto Institut Teknologi Bandung, Indonesia

October 16 (Wednesday) / 13:30-15:00

	Room A		Room B		Room C
Session Title	[WeA3] Platforms for Remote Sensing Applications 1	Session Title	[WeB3] Remote Sensing of Hydrology and Water Resources 4	Session Title	[WeC3] Algorithms for Remote Sensing Application 3
Session Chairs	Dr. Tao Sun (Ministry of Water Resources, China) Dr. Manzul Hazarika (Geoinformatics Center, Thailand)	Session Chair	Dr. Mu Than (Dagon Univ, Myanmar)	Session Chair	Dr. Dongseok Shin (Satrec Initiative Co., Ltd, Korea)
Date	October 16 (Wednesday)	Date	October 16 (Wednesday)	Date	October 16 (Wednesday)
Time	13:30-15:00	Time	13:30-14:45	Time	13:30-14:30
WeA3-1 13:30-13:45	Framework design of information management and supervision platform on soil and water conservation Tao Suni, Hui Li, Yu Zhao', Chang jun Liu', Zhe Dong' and Xia Zhang' 'China inst. of water resources and hydropower research, China, 'Beijing Soil and Water Conservation Center, China	WeB3-1 13:30-13:45	Arsenic contamination in groundwater in Kyonpyaw area, Ayeyarwady region Mu Mu Than, Khin Mar Yee, Kyi Lint, May Myat Thu and Malar Han Dagon Univ, Myanmar	WeC3-1 13:30-13:45	Detecting building boundary using residual U-Net Suhong Yoo, Jisang Lee, Junsu Bae and Honggyoo Sohn Yonsei Univ, Korea
WeA3-2 13:45-14:00	Evaluating the accuracy of satellite derived bathymetry Ratna Sari Dewi, Prayudha Hartanto, Yustisi Lumbar-Gao, Adrion Rizaldy, Ayu Jun Syafi, Nadya Oktaviani, Intan Pujawati, Nursugi, Ati Rahadiati and Sandi Aditya <i>Geospatial Information Agency, Indonesia</i>	WeB3-2 13:45-14:00	Assessment of river diversion on water adequacy using GOOGLE EARTH ENGINE - A TSANGPO BRAHMAPUTRA RIVER case study Guneet Mutreja ¹ , Abhra Singh ² and Shailesh Deshpande ³ 'Tata Consultancy Services, India, ² Department of Geography, India, ³ Tata Consultancy Services, India	WeC3-2 13:45-14:00	A self-calibration method for terrestrial laser scan Tengfie Zhou ¹ , Xiaojun Cheng ¹ and Rui Shan ¹² ¹ Tongji University, China, ² China Geological Survey, China
WeA3-3 14:00-14:15	Implementation of integrated geospatial platform, database, and applications for disaster risk management in Uttarakhand Ashok Dahal, Pratichhya Sharma and Dr. Manzul Kumar Hazarika Asian Institute of Technology, Thailand	WeB3-3 14:00-14:15	Comparison of geospatial technologies for monitoring and evaluation of irrigation networks Mark Edwin Tupas, Mark Paulo Acala, Mary Ann Caleja, Panji Brotoisworo and Aex John Escobido University of the Philippines, Philippines	WeC3-3 14:00-14:15	Retrieval of surface solar radiation from Himawari-8 measurements Run Ma ¹² and Husi Letu ¹ ¹ Chinese Academy of Sciences, China, ² University of Chinese Academy of Sciences, China
WeA3-4 14:15-14:30	Designing the data infrastructure with macro and micro sensing for building disaster resilience Mearoni Muca and Naohiko Kohtake Keio University, Japan	WeB3-4 14:15-14:30	A method for constructing reservoir area- storage-elevation curve using sentinel-1 radar remote sensing image Nguren Qucc Hiep', Nguren Anh Hung', Do Hoai Nam', Hyeoung-Wook Choi ^a and Gi+lo Kim ³ 'Ministry of Agriculture and Rural Development, Vietnam', 'EGC & QL or, Lt, K Jorea, 'Korea Water Resource Corporation, Korea	WeC3-4 14:15-14:30	Shoreline extraction using data mining technique: a case study at northeast coast of peninsular Malaysia Syaifuhizam Abd Manaf, Norwati Mustapha, Md Nasir Sulaiman, Nor Azura Husin and Hehmi Zuhaid Mohd Shafii Universiti Putra Malaysia, Malaysia
WeA3-5 14:30-14:45	Future benefits of micro satellite constellation images for railway Claire NICODEME <i>SNOF, France</i>	WeB3-5 14:30-14:45	Quantify the wandering river floodplain vegetation response to hydrogeomorphology in high-1 latitude arid regions using MODIS-NDVI time series Xarapat Ablat ¹² , Gachuan Liu ¹ , Qingsheng Liu ¹ and Chong Huan ² (Chinese Academy of Sciences, ² University of Chinese Academy of Sciences, China		
WeA3-6 14:45-15:00	Introducing: a layman's interpretation guide to Synthetic Aperture Radar (SAR) data				

Ake Rosenqvist solo Earth Observation, Japan

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	Room D		Room E
Session Title	[WeD3] Remote Sensing for Disaster Management 8	Session Title	[WeE3] Special Issues 1
Session Chair	Prof. Hoonyol Lee (Kangwon National University, Korea)	Session Chair	Prof. Anjana Vyas (CEPT University, India)
Date Time	October 16 (Wednesday) 13:30-15:00	Date Time	October 16 (Wednesday) 13:30-14:30
WeD3-1 13:30-13:45	GIS integrated system in developing a framework of methodological approach for disaster management in Malaysia M.Zainora Asmawi, Zaini Nordin ² , Nor Shah Mohd Saad ² and Megat Sahri Zaina ² ¹ International Islamic University Malaysia, Malaysia, ² Invironmental Planning Group Sdn Bhd, Malaysia	WeE3-1 13:30-13:45	Thailand youth innovation internship program: satellite telecommunication engineer Warinthorn Kiadtikornthaweeyot ¹ , Natthawat Hongkarnjanakul ¹ , Thanchanok Khlongkhlaew ¹ , Prayat Puangjaktha ² and Peerapong aramscontomsuk ² ¹ Geo-Informatics and Space Technology Development Agency (GISTDA), Thailand ² Chiang mai University, Thailand, ¹ Mahanakorn university of technology, Thailand
WeD3-2 13:45-14:00	Mapping and monitoring burned area/ vegetation clear-cut in Riau of Sumatra from time series fo Sentinel-1 data Ping CHEN, Soo Chin LIEW and Leong Keong KWOH National University of Singapore, Singapore	WeE3-2 13:45-14:00	Core processing for analysis ready data of KOMPSAT 3A image: absolute atmospheric correction Kiwon Lee', Yongseung Kim ² , Kwangseob Kim ¹ and Sun-Gu Lee ² 'Hansung University, Korea, ² Korea Aerospace Research Institute, Korea
WeD3-3 14:00-14:15	Landslides detection from satellite imagery using a deep learning technique Yung ming Tsai and Kuc Chen Chang National Taiwan Normal University, China Taipei	WeE3-3 14:00-14:15	Unobtrusive mobile push technology in location broadcasting Vicente A. Pitogo, Rolyn C. Daguil and Jesterlyn Q. Timosan <i>Caraga State University, Philippines</i>
WeD3-4 14:15-14:30	Development of LiDAR-based flood footprint map of October 2017 Zamboanga city flooding due to low pressure area Israilah S. Ontorg, Julemer Ann G. Aying, Rowald Z. Baluyut, Emir V. Epino and Mario S. Rodriguez Ateneo de Zamboanga University, Philippines	WeE3-4 14:15-14:30	Geovisualizations for adaptation strategy formulation at Western Mongolia Balt Suvdantsetseg ¹ , Bolor Kherlenbayar ² , Myagmarsurem Altanbagana ² and Khurel Nornirbölor ⁴ ¹ Sustainable development institute for western region of Mongolia, Mongolia, ² Institute of Geography and Geoecology, Mongolia, ² Institute of for Strategic Studies, Mongolia
WeD3-5 14:30-14:45	Makasar flood area detection using Sentinel-1 GRD satellite image with use of change index and ESA-SNAP Dadan Ramdani ²² ¹ Badan Informasi Geospasial (Geospatial information Agency), Indonesia, ² Universitas Pakuan (Pakuan University), Indonesia		
WeD3-6 14:45-15:00	Observation of surface subsidence by interferometric SAR time series analysis in Chiba Prefecture Ryota Aoto, Keiji Imaoka, Hidenori Shingin and Kakuji Qawana Yamaguchi Univ, Japan		

October 16 (Wednesday) / 15:30-17:00

	Room A		Room B		Room C
Session Title	[WeA4] Platforms for Remote Sensing Applications 2	Session Title	[WeB4] Remote Sensing for Urban and Regional Planning 1	Session Title	[WeC4] Algorithms for Remote Sensing Application 4
Session Chair	Dr. Junhwa Chi (Korea Polar Research Institute, Korea)	Session Chairs	Prof. Zulkifiee Abd Latif (Universiti Teknologi MARA, Malaysia) Dr. Moung Jin Lee (Korea Environment Institute, Korea)	Session Chair	Dr. Dongseok Shin (Sa TReC Initiative, Korea)
Date	October 16 (Wednesday)	Date	October 16 (Wednesday)	Date	October 16 (Wednesday)
Time	15:30-16:45	Time	15:30-17:00	Time	15:30-16:45
WeA4-1 15:30-15:45	Demonstrating an operational workflow for crisis mapping based on satellite Imagery And Bens and Alexander Klaus GAF AG, Germany	WeB4-1 15:30-15:45	Land use mapping and monitoring in Lamchiengkrai watershed using remote sensing data, Nakhon Ratchasima, Thaland Intareya Sutthivanich ¹ , Sasikarn Plaiklang ² , Udomvt Maneevan ¹ , Surijom Charungthanaki ¹ and Songpom Pamam ² 'Suranaree University of Technology, Thailand, ² Rambhaibami Rajabhat University, Thailand, ³ Sipakom University, Thailand	WeC4-1 15:30-15:45	Nonlinear relative radiometric normalization for Landsat 7 and Landsat 8 imagery Lino Garda Denaro and Chao Hung Lin National Cheng Kung University, China Taipei
WeA4-2 15:45-16:00	Applications of remote sensing indices for property price estimation Silzeo Ge and Shih-Yuan Lin NCCU, China Taipei	WeB4-2 15:45-16:00	Land use and land cover change detection for urban sprawl analysis of Mumbai Metropolitan Region (MMR) Varha Bhosae and Archana Patankar University of Mumbai, India	WeC4-2 15:45-16:00	The efficiency of GSD normalization for object detection in aerial images Taegoo Kim, Ildoo Kim, Jonghyuck Park and Jihoon Lee Kakao Brain, Korea
WeA4-3 16:00-16:15	Mapping of the potential sites for electric ferry operation using Geographic Information System (GIS) for green inter- island transport Eleonor V Palconit ¹² and Michael Lochinvar S. Abundo ¹³ ¹ University of San Carlos, Philippines, ² Ateneo de Davao University, Philippines, ³ Nanyang Technological University, Sngapore	WeB4-3 16:00-16:15	The relation of land surface temperature and vegetation indices based on Landsat imagery Rika Hemawati and Soni Darmawan Institut Teknologi Nasional, Indonesia	WeC4-3 16:00-16:15	Preliminary tests on non-metric camera self-calibration by using wavelet additional parameters JunFuYe and JaanRong Tsay National Cheng Kung University, China Taipei
WeA4-4 16:15-16:30	Land evaluation mapping of sidrap wind power plant location using remote sensing and GIS Yunus Isnaeni, Agnes Putri Devinta, Anwar Wahyudin, Atika Ratnaningsih, Rakhmat Dwi Putra, Wedha Ratu Dela, Wirastuti Widyatmanti, Sudayation and Rehradi Heru, Jalmiko Universitas Gadjah Mada, Indonesia	WeB4-4 16:15-16:30	Urban growth assessment and its impact on deforestation at national botanical park, Malaysia using remote sensing and GIS techniques Nurul Ain Mohd Darus and Zulkiflee Abd Latif Universiti Teknologi MARA (UITM), MALAYSIA	WeC4-4 16:15-16:30	Massive point cloud processing on Hadoop: challenges and proposed solution Minh Hieu Nguyen, Sanghyun Yoon, Sangyoon Park and Joon Heo Yonsei University, Korea
WeA4-5 16:30-16:45	Control of settlements in unsuitable lands: with special reference to Ratnapura District Sandhya Bambarand Urban Development Authority, Sri lanka	WeB4-5 16:30-16:45	Evaluating impervious area in north-west Delhi Mandvi Misra ¹ , Deepak Kumar ³ and Sulochana Shekha ² 'AMITY University, India, ² Central University of Tamil Nadu, India	WeC4-5 16:30-16:45	Classification of LiDAR point cloud using machine learning classifier approach Mochamad Invan Hariyono and Aldino Rizaldy Geospatial Information Agency, Indonesia
		WeB4-6 16:45-17:00	Analysis of spatial-temporal data for urban land use changes in municipality of Nakhonratchsima City, Thailand Yaowaret Jantakat', Sasikarn Plaiklang' and Worapon Arree ¹ ,		

¹RBRU Univ, Thailand, ²RMUTI Univ, Thailand

	Room D		Room E
Session Title	[WeD4] Remote Sensing of Climate Change 1	Session Title	[WeE4] Special Issues 2
Session Chairs	Dr. Seonyoung Park (Korea Aerospace Research Institute(KARI), Korea) Prof. Minha Choi (Sungkyunkwan University, Korea)	Session Chair	Prof. Mazlan Hashim <i>(Universiti Teknologi Malaysia, Malaysia)</i>
Date	October 16 (Wednesdav)	Date	October 16 (Wednesday)
Time	15:30-16:45	Time	15:30-17:00
WeD4-1 15:30-15:45	Impact assessment of surface dryness and snow cover on wildfires in Far East Russia Haemi Park and Wataru Takeuchi The University of Tokyo, Japan	WeE4-1 15:30-15:45	Hamessing earth observation system for fast-realizing Sustainable Development Goal (SDG) on clean water and sanitation Mazlan Hashim, Mohd Rizulutin Mahmud, Mohd Nadzri Reba and Nurul Nadia Yahya Universiti Teknologi Malaysia, Malaysia
WeD4-2 15:45-16:00	Assessing length of growing period as an indicator of climate change Ragunath Kaliaperumal, Pazhanivelan Selaperumaland Kumaraperumal Ramalingam Tamilnadu Agricultural University, India	WeE4-2 15:45-16:00	Temporal and spatial analysis of criminal path of different types of serial sexual offenders Hsu-Hisien Chen ¹ , Pei-Fen Kuo ¹ and Sheng-Ang Shen ² 'National Cheng Kung University, China Taipei, ² Central Police University, China Taipei
WeD4-3 16:00-16:15	Spatio-temporal assessment of monthly GPM and TRMM: A preliminary study in coastal and inland at Sabah and Sarawak, Malaysia Muhammad Luan Nadzri ¹ , Aidy M Muslim ¹ , Mohammad Shawkat Hossain ¹ , Mou Leong Tan ² and Mohd Sofiyan Sulaiman ¹ 'Universiti Malaysia Terengganu, Malaysia, ² Universiti Sains Malaysia, Malaysia	WeE4-3 16:00-16:15	SAR2MAP : SAR to Map Image transfer with conditional generative adversarial networks Mustafa Yagmur, Kento Doi and Akira Iwasaki the University of Tokyo, Japan
WeD4-4 16:15-16:30	Climate change and its impact on Glaciers in Hindu Kush region: a case study of Yarkhun Valley, Chitral Pakistan Alamger Hussain', Jay Sagin', Aigul Bekbayeva ³ and Muhammad Abid ⁴ ¹ Directorate of Education Gilgit Baltistan, Pakistan, ¹ Nazathayev University, Kazakhstan, ⁴ S. Seifullin Kazakh Agro Technical University, Kazakhstan, ⁴ COMSATS University Islamabad, Pakistan	WeE4-4 16:15-16:30	Digital data classification and extraction for records management of paps and child documents using tesseract OCR Jernifer E. Sabugaa and Glenn S. Lahayon <i>Caraga State University, Philippines</i>
WeD4-5 16:30-16:45	MODTRAN-based retrieval of aerosol optical thickness over Chiba area from Himawari-8/AHI visible images Zixuan Xue, Nofel Lagrosas and Hiroaki Kuze <i>Chiba University.Japan</i>	WeE4-5 16:30-16:45	Evaluation and assessment of solar energy over water bodies of Uttarakhand Mudit Kapoor, Rahul Dev Garg, Yashika Chaudhary and Ashish Kumar Indian Institute of Technology, India
		WeE4-6 16:45-17:00	Design and development of web-based pharmacy finder JenieL. Plender, Donna May C. Lozada and Trician Faye D. Gozon Caraga State University, Philippines

October 17 (Thursday) / 09:00-10:30

	Room A	Room B		Room C	
Session Title	[ThA1] Algorithms for Remote Sensing Application 5	Session Title	[ThB1] Remote Sensing for Urban and Regional Planning 2	Session Title	[ThC1] Machine Learning for Remote Sensing Applications 3
Session Chair	Dr. Duong Nguyen (INSTITUTE OF GEOGRAPHY, VIET NAM ACADEMY OF SCIENCE AND TECHNOLOGY, Viet Nam)	Session Chair	Prof. SEONG-WOO JEON (Korea University, Korea)	Session Chair	Prof. Youkyung Han (Kyungpook National University, Korea)
Date	October 17 (Thursday)	Date	October 17 (Thursday)	Date	October 17 (Thursday)
Time	09:00-10:30	Time	09:00-10:30	Time	09:00-10:30
ThA1-1 09:00-09:15	Monitoring of 3-D land subsidence integrating PSI AND GPS data by WLS Takaya Kusakabe ¹ , Junichi Susaki ¹ and Takuma Anahara ¹ 'Kyoto University, Japan, ² Japan Aerospace Exploration Agency, Japan	ThB1-1 09:00-09:15	Feasibility of exploitation of 3D city model created from LIDAR data and aerial images in applications focusing on chaophraya river basin and the area of the eastem economic corridor (EEC) of Thailand Nobphadon Suksangpanya and Chisaphat Supuryachtsakul King Mongkut's Institute of Technology Ladvabang Thailand	ThC1-1 09:00-09:15	Chlorophyll-a concentration retrieval using convolutional neural networks in Laguna Lake, Philippines Muhammad Aklia Syari2, Chao-Hung Lin, Marh Van Nguyen ¹⁴ , Lalu Muhamad Jaelan ² and Ariel C. Blanco ³ ¹ National Cheng Kung University, China Taipei, ² University of the Philippines, Philippines, ⁴ Vietnam Academy of Science and Technology, Vietnam
ThA1-2 09:15-09:30	Creation of algorithms for the automated constructing relief maps based on remote sensing data for a various morphostructural complexes of the russian federation Olga V Artemeva, Natalia A Pozdnyakova, Tatiana A Andrewa, Sergei V Tyurin and Nicolay D Vaslev Saint-Petersburg State University, Russian Federation	ThB1-2 09:15-09:30	Impact of urbanization on land surface temperature using deep learning approach Manikandan Sathianarayanan and Dr, PaiHui Hsu National Taiwan University, China Taipei	ThC1-2 09:15-09:30	Using fully convolutional networks and pléiades satellite imagery with pre-trained VGG-19 model to detect impervious surface in farmland Wei Liand Chikuei Wang National Cheng Kung Univ, China Taipei
ThA1-3 09:30-09:45	Assessment of interferometric SAR- based digital elevation models Yen-Yi Wu ¹⁷ , Shih-Yuan Im ² and Hsuan Ren ¹ ¹ National Central University, China Taipei, ² National Chengchi University, China Taipei	ThB1-3 09:30-09:45	Assessment of the relationship between the rainfall and the land surface temperature using the multi-temporal landsat satellite images acquired in Seoul Yun-Jae Choung ¹ , Dae-Ik Kang ¹ , Hye-Ji Park ² and Myung-Hee Jo ² <i>IGEO C81 Co.</i> , Ltd, Korea, ² Kyungpook National University Korea	ThC1-3 09:30-09:45	Mangroves change detection using support vector machine algorithm on google earth engine (a case study in part of gulf of bone, South Sulawesi, Indonesia) William Krista Mahendra, Ilham Jamaluddin and Muhammad Kamal Universitas Gadjah Mada, Indonesia
ThA1-4 09:45-10:00	Assessing the optic and non-optic remote sensing data; a validation of soil wetness approach Dewayary Sutrisno, Mulyanto darmawan and Ati Rahadiati Badan Informasi Geospasial, Indonesia	ThB1-4 09:45-10:00	Spatio-temporal growth pattern analysis and urban simulation in colombo city using open source software tools - application of futures simulation model Pavithra Jayasinghe, Venkatesh Raghavan, Nirschan Sariyaya and Go Yonezawa Osaka City University. Japan	ThC1-4 09:45-10:00	3D scene reconstruction from multi-view stereo images using machine learning Ya-Chu Tsao and Pai-Hui Hsu Nat. Taiwan Univ, China Taipei
ThA1-5 10:00-10:15	Determination of land cover change by multi-temporal radar imagery Tran Van Anh', Le Minh Hang' and Nguyen Dinh Duong ³ ¹ Hanoi University of Mining and Geology, Vietnam, ² Le Quy Don Technical University, Vietnam, ³ Vietnam Academy of Science and Technology, Vietnam	ThB1-5 10:00-10:15	Control of settlements in unsuitable lands: with special reference to Ratnapura district Sandhya Bambarand Urban Development Authority, Sri Ianka	ThC1-5 10:00-10:15	Different deep learning approaches for single class-labeling: ship-detection application Saziye Ozge Donmez, Dursun Zafer Seker and Cengizhan jbüker Istanbul Technical University, Turkey
ThA1-6 10:15-10:30	Monitoring the sugarcane phenology through time series of sentinel-2 in the Northeastern of Thailand Asamaporn Sitth ¹ , Chudech Losin ¹ , Sarawut Ninsawat ² and Vorraveeukom Veerachitt ² 'Srinakharinwirot University, Thailand, ² Asian Institute of Technology, Thailand, ¹ Mitr Phol Sugarcane Research Center Co, Thailand	ThB1-6 10:15-10:30	Volume computation of municipal landfill - comparing GNSS and UAV Petr Šádek and Juraj Struhár VSB, Czechia	ThC1-6 10:15-10:30	Deep learning based tropical cyclone intensity monitoring and forecasting Juhyun Lee, Cheolhee Yoo, Dongjin Cho, Kyoungmin Kim and Jungho Im Ulsan National Institute of Science and Technology, Korea
	Room D		Room E		Room F
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Session Title	[ThD1] Remote Sensing of Climate	Session Title	[ThE1] LIDAR Data Processing 1	Session Title	[ThF1] GIS & GNSS 8
Session Chair	Dr. Akira Hirano (<i>JIRCAS, Japan</i>)	Session Chairs	Prof. Taejung Kim (Inha University, Korea) Prof. Tee-Ann Teo (National Chiao Ting University, China Taipei)	Session Chair	Prof. Chih-Yuan Huang (National Central University, China Taipei)
Date Time	October 17 (Thursday) 09:00-10:30	Date Time	October 17 (Thursday) 09:00-10:30	Date Time	October 17 (Thursday) 09:00-10:30
ThD1-1 09:00-09:15	Suspended sediment dynamics in the chi-mun river basin, THAILAND: impact of climate change and anthropogenic activities Khruewan Champangern ¹ , Witchayada Prasertsri ² and Tiwakorn Wuttipan ² Mattapon Scontorn ² , Patiwet Chalempong ³ and Tanita Suepa ¹ Geo-Informatics and Space Technology Development Agency, Thailand, ² The Univ. of Burapha, Thailand	ThE1-1 09:00-09:15	Canopy cover estimation based on support vector regression derived from LIDAR & landsat 8 OLI Sahid Hudjimartsu ¹² , Fellks Tampinongko ¹¹ , Yoga Rudianto, ¹ Vud Setiawan, ¹ Lilk Budi Prasetyo ¹ ¹ The Univ. of Bogor, Indonesia, ² The Univ. of Ibn Khaldun, Indonesia	ThF1-1 09:00-09:15	Developing a geo-app for road accident emergency response: supporting the UN SDG 3 Adebisi Naheem Idowu and Abdul-Lateef Balogun The Univ. of Teknologi PETRONAS, Malaysia
ThD1-2 09:15-09:30	Assessment of flowering pattern using climatic remote sensing data in peninsular Malaysia Mohamad Hanif Bin Abdullah and Noordyana Binti Hassan Universiti Teknologi Malaysia, Malaysia	ThE1-2 09:15-09:30	Laser ranging correction under mixed pixels effect Chie-Mien Chang and Jen-Jer Jaw National Taiwan University, China Taipei	ThF1-2 09:15-09:30	Tsunami shelter location allocation by applying a heuristic algorithm to residential and floating population data Junsu Bae ¹ , Hong-Gyoo Sohn ¹ , Joon Heo ¹ , Sangkyun Kim ¹ and Mi-Kyeong Kim ² 'The Univ of Yansei, Karea ² Agency for Defense Development, Karea
ThD1-3 09:30-09:45	On the applicability of satellite-based rainfall estimates for the determination of monsoon onset date: case study in the Ayeyarwady delta, Myanmar Akira Hirano', Swe Swe Mar', May Toe Aung Myint' and Ha Moe Kraing' 'Japan International Research Center for Agricultural Mammar, 'Department of Agriculture Labutta Office, Myanmar	ThE1-3 09:30-09:45	LiDAR spatial resolution interpolation using color similarity of optical image for road surface surveying Parawata Thanakitivin, Sompong Liangrocapart, Suphongas Kretkerere and Chapkit Chansamom The Univ. of Mahanakorn, Thailand	ThF1-3 09:30-09:45	GIS based documentation of the monumental tree inventory in Istanbul Abdulladir Baytimur and Dursun Zafer Seker ITU, Turkey
ThD1-4 09:45-10:00	Assessment of pastureland vulnerability on socio-economy of local communities using RS and GIS B. Kherlenbayar ^{1,2} , B. Suvdantsetseg ^{2,3} , MAtarbagara ¹² and Kh.Nomibolod ⁶ 'Institute of Geography and Geoecology, Mongolia, ² Sustainable development Institute for western region of Mongola, Mongolian Academy of Sciences, Mongolia, 'Institute for Strategic Studies, Mongolia	ThE1-4 09:45-10:00	Classification of LiDAR point clouds based on the 2d cells Kottage Saumya Denuwan Jayasundara ¹ , Sanka Perear ¹ and Nalari Perera ¹ <i>Bernard Soysa Mawatha, Sri Lanka,</i> ² The Univ. of Sabaragamuwa, Sri Lanka	ThF1-4 09:45-10:00	A web GIS-based visualization and analytical platform for near-real time flood characterization, forecasting and impact assessment Jojene R. Santillan, Edsel Matt O. Morales, Meriam Makinano-Santillan, Arthur M. Amora, Jennifer T. Marqueso and Amor L. Gingo The Univ. of Caraga State, Philippines
ThD1-5 10:00-10:15	Rainfall pattern assessment from global climate models based on satellite- derived estimates over the indian region Sudp Kumar Kundu ¹ , Charu Singh ² Indian institute of Science, India ² Indian Institute of Remote Sensing, India	ThE1-5 10:00-10:15	Automated road centerlines extraction for high-definition map using mobile LiDAR system Shao-Wei Huanga and Tee Ann Teob The Univ. of National Chiao Tung, China Taipei	ThF1-5 10:00-10:15	Validation using national land numerical information on the flood rate estimated by microwave radiometer Yukiya Taniguchi The Univ. of Tokyo, Japan
ThD1-6 10:15-10:30	Assessment of modis land surface temperature data against ground meteorological data for the west coast of peninsular Malaysia Nurul Iman Saliful Bahari, Farrah Melissa Muharam, Zed Zulkafi, Norida Mazlan, Nor Azura Husin The Univ. of Putra Malaysia, Malaysia	ThE1-6 10:15-10:30	H2020 EOPEN easing copernicus data & service exploitation Leslie Gale', Bernard Valentin', Hakim Boulaha', Guido Vingione'', Gabriella Scarpino'', Laurence Marzeli', Tudor Pettengeli', Illas Gialampoukidis', Stelios Andreadis', Stefanos Vrochidis', Ioannis Kompatsiaris', Dennis Hoppe', Li Zhong', Michele Ferri', Daniele Norbiato', Francesco Zaffanella', Ari Karppinen'', Jani Tyynela', Petteri Karsisto', Haris Kontoes', Ioannis Papoutsis', Vasileios Stokonstantinou', Thanassis Diwas', Hyun-Woo Jo' and Hoonjoo Yoon'' ' Space Applications Services, Belgium, ² Serco S.p.A. Italy. ³ Information Technologies Institute, Greece, 'Universitä Stuttgart, Germany, 'Autorità di Bacino Distritutale della Api Oriental, Italy. ⁴ Finnish Meteorological Institute, Finland, 'Institute for Astronomy & Astrophysics, Greece, ⁸ Korea, University Environmental GIS/RS Center, Korea, ⁸ Sundosoft, Ltd, Korea	ThF1-6 10:15-10:30	Importance of sound wave and GIS during disaster or emergency Rajendra N. Gaikwad and M. P. Oza Space Applications Centre, India

October 17 (Thursday) / 11:00-12:30

	Room A		Room B		Room C
Session Title	[ThA2] Algorithms for Remote Sensing Application 6	Session Title	[ThB2] Remote Sensing for Urban and Regional Planning 3	Session Title	[ThC2] Machine Learning for Remote Sensing Applications 4
Session Chairs	Prof. Chul-Soo Ye (Far East University, Korea) Prof. Dewayany Sutrisno (Badan Informasi Geospasial, Indonesia)	Session Chairs	Dr. Bhuwneshwar Sah (PASCO CORPORATION, Japan) Prof. Chao-Hung Lin (National Cheng-Kung University China Tainei)	Session Chairs	Prof. No-Wook Park (INHA University, Korea) Prof. TASKIN KAVZOGLU (Gebze Technical University, Turkey)
Date Time	October 17 (Thursday) 11:00-12:30	Date Time	October 17 (Thursday) 11:00-12:45	Date Time	October 17 (Thursday) 11:00-12:15
ThA2-1 11:00-11:15	Geometric correction and soil volume estimation in debris flow areas using LiDAR data Po-Jui Huang ¹² , Min-Lung Cheng ¹ , Masashi Matsuoka ¹ and Hiroyuki Miura ¹ 'Tokyo Institute of Technology, Japan, ² National Central University, China Taipei, ³ Hiroshima University, Japan	ThB2-1 11:00-11:15	Use of UAV and GIS for infrastructure management in Cambodia Bhuwneshwar Prasad Sah', James Kazumori Watson', Samnang Chea' and Takayuki Tsuchida ³ "PASCO CORPORATION, Japan, ⁴ Ministry of Public Works and Transportation, Cambodia, ³ CTI Engineering International Co., Ltd., Japan	ThC2-1 11:00-11:15	Agricultural crop type mapping using object-based image analysis with advanced ensemble learning algorithms Taskin Kavzoglu, Ismail Colkesen and Hasan Tonbul Gebze Technical University, Turkey
ThA2-2 11:15-11:30	Comparative analysis of extraction accuracy of fire detection algorithms in Northern of China Guchong Li Chang Guo, Ke Liu, Yuanping Liu and Yujing Wang North China Institute of Aerospace Engineering, China	ThB2-2 11:15-11:30	Patch-based land cover change detection using multitemporal and multivariate alteration detection of optical satellite imagery Bo-YiLin and Chao-Hung Lin National Cheng-Kung University, China Taipei	ThC2-2 11:15-11:30	Automatic discriminative feature extraction using convolutional neural network for remote sensing image classification Akhtar Jamil' and Bulent Bayram ² ¹ Istanbul' Sabahattin Zaim University, Turkey, ² Yildiz Technical University, Turkey
ThA2-3 11:30-11:45	Object based hyperspectral image analysis for cadastral mapping Kangjoon Cho, Yongil Kim and Taehong Kwak Seoul National Univ, Korea	ThB2-3 11:30-11:45	The assessment of walkability index in urban area using remote sensing data: a case study of Padang city Muhammad Zayyanul Afwani, Rezki Amelia C, Sabrina Tami, Athaya Atsir F, A.M.C Widhiasta Bramon, Ibnu Hasyim P and Prina Widayani Universitas Gadjah Mada, Indonesia	ThC2-3 11:30-11:45	Comparison of google earth engine (GEE)-based machine learning classifiers for mangrove mapping Muhammad Kamai, Iham Jamaluddin, Artha Parela and Nur Mohammad Farda Universitas Gadjah Mada, Indonesia
ThA2-4 11:45-12:00	Shadow based new remote sensing metrics for moso bamboo biomass prediction using unmanned aerial vehicle photogrammetric data Yrta Hsieh, Yang'to Deng, Regassa Terefe Urga, Jian Liu and Kunyong Yu Fujian Agriculture and Forestry University, China	ThB2-4 11:45-12:00	Trend analysis of urban heat island intensity according to urban area change in Asian Mega Cities Kyungil Lee, Yoonji Kim, Hyun Chan Sung, Raeik Jang, Jieun Ryu and Seong Woo Jeon <i>Korea University, Korea</i>	ThC2-4 11:45-12:00	Deep learning based pansharpening using a laplacian pyramid Doyoung Jeong and Yongil Kim Seoul National Univ, Korea
ThA2-5 12:00-12:15	Spectral analysis of flaming and non- flaming infrared emitters with nighttime VIIRS data: preliminary results Christopher D. Elvidge ¹ , Midhal Zhizhin ² , Kimberly Baugh ² , Feng Chi Hsu ² and Tilottama Ghosh ² ¹ Colorado School of Mines, USA, ² University of Colorado, USA	ThB2-5 12:00-12:15	The study of heat island and its relation with urbanization in Gurugram, Delhi NCR for the period of 1989 to 2018 Satyam Kushvaha and Nithiyanandam Y TERI School of Advanced Studies, India	ThC2-5 12:00-12:15	Building footprint extraction from very high resolution satellite images: a comparison of object-based image analysis and deep reinforcement convolutional neural networks Rudolph Joshua Candare, Rolyn Daguil and Jaymer Jayoma Caraga State University, Philippines
ThA2-6 12:15-12:30	Texture based identification of informal settlements in curvelet and contourlet feature space Rizwan Ahmed Ansari ¹ and Krishna Mohan Buddhiraju ² 'Veermata Jijabai Technological Institute, India, ² Indian Institute of Technology Bombay, India	ThB2-6 12:15-12:30	Detecting urban land cover changes using neighborhood-scale classification in Cebu City, Central Philippines using landsat Imagery Ejares, Jay A and delos Santos, Carolyn Y University of the Philippines		
		ThB2-7 12:30-12:45	Studying the impacts of urbanization on wetland degradation in Colombo flood detention area using GIS/RS techniques R.G.I. Madhuwanthi', C.H. Edussuriya' and Niranga Alahaccori ^a 'University of Colombo, Sri Lanka, ² Central		

¹University of Colombo, Sri Lanka, ²Central Environmental Authority, Sri Lanka, ³International Water Management Institute, Sri Lanka

	Room D		Room E		Room F
Session Title	[ThD2] Remote Sensing of Marine &	Session Title	[ThE2] LIDAR Data Processing 2	Session Title	[ThF2] GIS & GNSS 9
Session Chairs	Dr. Jae-In Kim (Korea Polar Research Institute, Korea) Prof. Sendo Wang (National Taiwan Normal University China Taiwa)	Session Chair	Prof. Jen-Jer Jaw (National Taiwan University, China Taipei)	Session Chair	Prof. Dursun Zafer Seker (Istanbul Technical University, Turkey)
Date	October 17 (Thursday)	Date	October 17 (Thursday)	Date	October 17 (Thursday)
Time	11:00-12:45	Time	11:00-12:30	Time	11:00-12:30
ThD2-1 11:00-11:15	30 Years national scale seagrass mapping in vietnam with landsat and sentinel imagery on google earth engine Xuan Truong Trinh and Wataru Takeuchi The Unix of Tokyo, Japan	ThE2-1 11:00-11:15	Point clouds over tetiaroa - 3d modeling of a tropical island by topo-bathymetric LiDAR Serkan Utal, Armin Gruen ¹ and Sultan Kocaman ² ¹ Institute for Theoretical Physics, Switzerland, ² The Univ. of Hacettepe, Turkey	ThF2-1 11:00-11:15	A personalized GeoWeb search engine based on user intent recognition Regita Pramesti Nur Cahyani and Chih-Yuan Huang The Univ. of National Central, China Taipei
ThD2-2 11:15-11:30	Wave based approach to coastal bathymetry- case studies of coastal regions in India Ankita Misra ¹ , Balaji Ramakrishnan ¹ and Amit More ² "Indian Institute of Technology, India, ² Honda R&D CoLtd, Japan	ThE2-2 11:15-11:30	Multispectral airborne LiDAR intensity data: from correction to classication Wai Yeung Yan The Univ. of Hong Kong Polytechnic, Hong Kong	ThF2-2 11:15-11:30	Implementing GIS for air navigation aids infrastructure optimization Piyapam Khasuwan', Kitisak Phaebua', Supatcha Chaimatanan' and Akkarat Boonpoorga ³ ' Geo-Informatics and Space Technology Development Agency, Thailand, ² Industrial Electric and Control System Research Center, Thailand
ThD2-3 11:30-11:45	Spatial and seasonal analysis of surface wave dynamics on the coastal region using sentinel-1 SAR Fabian Surya Pramudya ¹³ , Jiayi Pan ¹² and Adam Thomas Devin ¹² ¹⁷ The Univ. of Hong Kong, China, ² The Univ. of Jiangxi Normal, China, ³ Center for Remote Sensing, Indonesia	ThE2:3 11:30-11:45	Low-cost LiDAR application on unmanned aerial vehicle for road surface survey: feasibility study Chapkit Chansamorn, Parawata Thanakitivirul, Sompong Liangrocapart and Suphongsa Khetkeeree The Univ. of Mahanakorn, Thailand	ThF2-3 11:30-11:45	Participatory GIS to verify the boundaries between forest areas and customary people's territories (case study: kasepuhan ciptegelar, the sundanese customary people) Fahrul Hidayat ¹ , Yogyrema Setyanto Putra ² , Gurdno Bintar Saputro ¹ , Rizka Windiastul ¹ <i>Tessearch Division at Indonesian Geospatial Information Agency, Indonesia, ²Centre for Boundary Mapping of Geospatial Information, Indonesia, ²Centre for Standardization and Institutional of Geospatial Information, Indonesia</i>
ThD2-4 11:45-12:00	A study on the estimation of farmed marine product output using aerial images - a case study on Busan laver farming - Gyeong-Min Kang', Hye-Ji Park', Myung-Hee Jo ² 'Institute of Spatial Information Technology Research, Korea, ² The Univ. of Kyungpook National, Korea	ThE2-4 11:45-12:00	Simulation program for generating 3D LiDAR data using a velodyne mobile laser scanning system (HDL-32E) Essam Hassan Hamza The Univ. of Military Technical, Egypt	ThF2-4 11:45-12:00	Mapping the distribution network of a government non-cash food assistance using geospatial information system in Kulon progo regency, Indonesia Hen Sutanta and Monikra Dyah Wulandari Universitas Gadjah Mada, Indonesia
ThD2-5 1200-12:15	Fish farming activities and spatial distribution in sungai siput, perak using geographic information system (GIS) and remote sensing Eleanor Daniella bt Lokman ¹ , Dato' Adnan bin Hussain ¹ , Pang AK Nyukang ¹ , Mohred Nazri Puasa ² , Rosliadi Rahim ¹ , McKreddy Yaban ² , Maizatuklura ² , Suhada An ² ¹ Ministry of Agriculture and Agro-Based Industry, Malaysia, ² Malaysia, ² Malaysian Remote Sensing Agency, Malaysia, ²	ThE2-5 12:00-12:15	Development of a system aiding designing and planning on airborne and mobile LiDAR data acquisition process Chisaphat Supunyachotsakul and Nobphadon Suksanganya King Mongkut's Institute of Technology Ladvabang Thailand	ThF2-5 12:00-12:15	Utilization of ALeRTO early warning system for localized weather disturbances in Zamboanga peninsula, Philippines Julemer Am G. Aying, Raymond T. Ong, Mario S. Rodriguez, Emir V. Epino and Glenn Leandri Bryle L Lamparas Ateneo de Zamboanga University, Philippines
ThD2-6 12:15-12:30	Integration of satellite-based environmental data for skipjack tuna fishing ground determination Adillah Alfatinah and Hone-Jay Chu The Univ. of Cheng Kung. China Taipei	ThE2-6 12:15-12:30	The comparison of cloth simulation and progressive tin densification filters to support semantic segmentation of airborne LiDAR data Fahrul Hidyat, Mcchamad Iwan Hariyono, Tia Rizka Nuzula Rachma and Danang Budi Susetyo Indonesian Geospatial Information Agency, Indonesia	ThF2-6 12:15-12:30	Agricultural comprehensive assessment of landscape and modeling for sustainability analysis and forecasting events (CALM-SAFE Agriculture) Program James Earl D. Cubillas ¹ , Joemar M. Rodrigo ¹ , Francisdomson F, Zollo ² , Leny M. Linguis ¹ and Rizalyn A. Pequeo ¹
ThD2-7 12:30-12:45	Use of geographic information system (GIS) on sungai siput, perak's omamental fish farmers activities and off-farm employment Eleanor Daniella bt Lokman, Dato' Adnan bin Hussain, Mohamad Nazri Puasa, Rosladi Rahim, Ong See Ling, Sti Hasshura Hashim, Azaharie bin Anuar, Nurul Nassita bt Lias Ministry of Agriculture and Agro-Based Industry, Malaysia				

October 17 (Thursday) / 13:30-15:00

	Room A		Room B		Room C
Session Title Session Chair	[ThA3] Algorithms for Remote Sensing Application 7 Dr. Christopher Elvidge (Payne Institute for Public Policy, Colorado School, United States of America)	Session Title Session Chairs	[ThB3] Remote Sensing for Urban and Regional Planning 4 Dr. Sasikam Plaiklang (<i>Rambhaibarni Rajabhat</i> University, <i>Thaland</i>) Prof. SEONG-WOO JEON (Korea University, Korea)	Session Title Session Chair	[ThC3] Machine Learning for Remote Sensing Applications 5 Prof. No-Wock Park (INHA University, Korea)
Date Time	October 17 (Thursday) 13:30-15:15	Date Time	October 17 (Thursday) 13:30-15:00	Date Time	October 17 (Thursday) 13:30-15:00
ThA3-1 13:30-13:45	Comparison of object-based image classification of worldview-2 and small format aerial photography images for vegetation mapping Zulfiki Isnaen ¹ , Muhammad Kamal ¹ and Denny Wijaya Kusuma ² Uhiwestas Gadjah Mada, Indonesia ² Institute for Marine Research and Observation, Indonesia	ThB3-1 13:30-13:45	Urban expansion scenarios based on artificial neural network (case of Erdenet city, Mongolia) Myagmartseren Purevtseren, Lodoiravsal Choima, Ganpurev Dashlegtseg, Myagmarjav Indra and Bazarkhand Tsegmid National University of Mongolia, Mongolia	ThC3-1 13:30-13:45	Automatic extraction of training sets using AIS in CNN for ship detection from SAR image Juyoung Song, Dukjin Kim and Ki-mook Kang Seoul National Univ, Korea
ThA3-2 13:45-14:00	The comparison of versatile land use mapping (scale 1:50.000) using visual image interpretation and supervised multispectral classification method Maya Indah Sari, Fajrun Wahidil Muharram ² and Iswari Nur Hidayati ¹ Universitas Gadjah Mada, Indonesia, ² Badan Informasi Geospasial, Indonesia	ThB3-2 13:45-14:00	Land use change detection and its implication of THA MAI Area in Chanthaburi province using LANDSAT 8 Data Sasikam Plaiklang', Intareeya Sutthivanich', Songporn Pramarn', Kumpee Teeravech', Patkom Thonging', Todthong Chancharoen' and Surjoon Charungthaneki' 'Rambhaibarni Rajabhat University, Thailand, 'Suranare University, Thailand, 'Supakom University, Thailand	ThC3-2 13:45-14:00	A big data platform for remote sensing data processing Chen Xu ² and Xiaoping Du ¹ ¹ Institute of Remote Sensing and Digital Earth, China, ² Université de Lyon, France
ThA3-3 14:00-14:15	The development of an automation tool for processing vegetation health index (VHI) for monitoring agricultural drought for rice in every municipality in the Philippines James Earl D. Cubillas, Rudolph Joshua U. Candare and Rolyn C. Dagul <i>Canaga State University, Philippines</i>	ThB3-3 14:00-14:15	Prediction of heat wave over south korea using deep learning with teleconnection factors Yeorsu Lee, Chedhee Yoo and Dongjin Cho Ulsan National Institute of Science and Technology, Korea	ThC3-3 14:00-14:15	Domain adaptation for 2D/3D change detection in VHR imagery via calibration of convolutional neural network under prior probability shift Hursco Song, Anjin Chang ² , Junho Yeom ³ , Jinha Jung ⁴ and Yongi Kim ¹ ¹ Seoul National Univ, Korea, ² Texas A&M Univ, USA, ² Gyeongsang National Univ, Korea, ⁴ Purdue Univ, USA
ThA3-4 14:15-14:30	Modelling LRDP in response to multiscenarios in sangli district using AHP Rajendra N Gaikwad ¹ , Anjali Khirsagar ¹ and Apurba Bera ² 'Sautriba Phule Pune University, India, ² Regional Remote Sensing Centre, India	ThB3-4 14:15-14:30	Characterize the spatial-temporal variations of urban heat island intensity using a land use regression approach Chiao'Ying Chen', Chih-Da WU ²³ , Uen-Ching Ng ¹ and Shih-Chun Candice Lung ⁴⁵ "National Chiay' Univ., China Taipei, "National Chiay' Univ., China Taipei, "National Health Research Institutes, China Taipei, "Academia Sinica, China Taipei, "National Taipei, "National Univ., China Taipei," National Univ., China Taipei, "National Univ., China Taipei, "National Univ., China Taipei," National Univ., China Taipei, "National Univ., China Taipei, "National Univ., China Taipei," National Univ., China Taipei, "National Univ., China Taipei, "National Univ., China Taipei," National Univ., China Taipei, "National Univ., China Taipei, "National Univ., China Taipei," China Taipei, "National Univ., China Taipei, "National Univ., China Taipei," National Univ., China Taipei," National Univ.,	ThC3-4 14:15-14:30	Classification of economic characteristics based on klassen typology using multilayer perceptron neural network Nurrahim Dwi Saputra, Tanakom Sritarapipat, Songkot Dasananda Suranaree University of Technology, Thailand
ThA3-5 14:30-14:45	Multi-objective pareto optimal solution for tracking of MH370 DEBRIS Maged Marghany Geomatika University College, Malaysia	ThB3-5 14:30-14:45	Analysis of the relationship between urban heat islands and land use by remote sensing techniques (a case study of Colombo District) K.P.S. Ultupala ¹ , S. Sivanantharajah ² and C.H. Edussufya ¹ ¹ University of Colombo, Sri Lanka, ² Sri Lanka Survey Department, Sri Lanka, ³ Central Environmental Authority, Sri Lanka	ThC3-5 14:30-14:45	Smoke plume detection on satellite imageries using CNN with simulated smoke images Chenguang Hou, Celvin Tan and Soo Chin Liew National University of Singapore, Singapore
ThA3-6 14:45-15:00	Improvement of spatial interpolation accuracy of daily maximum air temperature using stacking ensemble technique Dongin Cho, Cheolhee Yoo, Jungho Im and YeonsuLee Ulsan National Institute of Science and Technology, Korea	ThB3-6 14:45-15:00	Scalable distributed random forest classification for paddy rice mapping Vasileios Sitokonstantinou, Thanassis Drivas, Alkiviadis Koukos, Ioannis Papoutsis and Charalampos Kontoes National Observatory of Athens, Greece	ThC3-6 14:45-15:00	Identification of path pheromone concentration using CNN: a tool for inverse ant algorithm implementation Jaymer M. Jayoma, James Earl B. Cubillas and Rudolph Joshua U. Candare <i>Caraga State University, Philippines</i>
ThA3-7 15:00-15:15	Big sentinel data processing for monitoring ground deformations loarnis Papoutsis ¹ , Charalampos Kontoes ¹ and Alexis Apostolakis ² 'National Observatory of Athens, Greece, ² Inha Univ, Korea				

	Room D		Room E		Room F
Session Title	[ThD3] Remote Sensing of Marine & Coastal Region 2	Session Title	[ThE3] Hyper-spectral data Processing 1	Session Title	[ThF3] Glocal Monitoring
Session Chairs	Prof Sang-Wan Kim (Sejong University, Korea) Prof. Dursun Zafer Seker (Istanbul Technical University, Turkey)	Session Chairs	Dr. Jungil Shin (Inha University, Korea) Prof. Ke Wang (Hohai University, China)	Session Chairs	Prof. Kohei Cho (Tokai University, Japan) Prof. Fuan Tsai (Center for Space and Remote Sensing Research, National Central University, China Taipa)
Date	October 17 (Thursday)	Date	October 17 (Thursday)	Date	October 17 (Thursday)
Time	13:30-15:00	Time	13:30-15:00	Time	13:30-15:00
ThD3-1 13:30-13:45	Mapping coastal marine debris flow using trajectory particle 2 dimension modelling and aerial imagery in metasari beach - Bali Eland Yupa Sobhytta', Rest Yuly Astuti', Permana Yudiarso', Suko Wardono', Ranady Dwiatmoko' 'Center for Management of Coastal and Marine Resources Denpasar, Indonesia, "Ministry of Maritime Affairs and Fisheries, Indonesia	ThE3-1 13:30-13:45	A memetic algorithm for generating spectral indices for remotely sensed imagery Ivan Marc H. Escarnos, Maria Art Antonette D. Clarito and Joseph Anthony C. Hermocilla Jaderick P. Pabico, Cristino L. Tiburan, Jr. University of the Philippines Los Barios, Philippines	ThF3-1 13:30-13:45	Development of the glocal monitoring system Kohei Cho, Osamu Uchida and Keisuke Utsu <i>Tokai University, Japan</i>
ThD3-2 13:45-14:00	Ship detection from X-band SAR images Using Multi-level Multi-scale Feature Pyramid Network Seong-Jae Hong ¹ , In-Jeong Hwang ² and Hyung- Sub Jung ¹ The Unix of Seoul, Korea, ² K-water Convergence Institute, Korea	ThE3-2 13:45-14:00	Cloud removal of gaofen-5 VNIR hyperspectral data using auxiliary multispectral data via residual neural networks Mingyuan Peng ¹² , Lifu Zhang ¹ , Xuejian Sun ¹ and Yi Cen ¹ 'Chinese Academy of Sciences, China, ² The Unix of Chinese Academy of Sciences, China	ThF3-2 14:00-14:15	Estimation of cloud optical properties and surface shortwave radiation from Himawari-8 satellite data: Influence of heavy aerosol on calculation of shortwave radiation in China Husi Letu, Run Ma, Huszhe Shang, Tarwing Wang, Liangfu Chen and Jiancheng Shi <i>Chinese Academy of Sciences (CAS), China</i>
ThD3-3 14:00-14:15	Sea surface current modelling by along track interferometry of tandam-x SAR data Maged Marghany The Univ. of Geomatika, Malaysia	ThE3-3 14:00-14:15	Hyperspectral image classification using convolutional neural networks Ke Wang School of Earth Science and Engineering, China	ThF3-3 14:15-14:30	Rating the effectiveness of fishery closures using VIIRS boat detection data Christopher D. Elvidge ¹ , Tilottama Ghosh ² , Kimberly Baugh ² , Feng Chi Hsu ² and Mikhail Zhizhin ² <i>Toolorado School of Mines, USA, ²University of</i> <i>Colorado, USA</i>
ThD3-4 14:15-14:30	Application of remote sensing to assess changes in shoreline and level of riverbed under the pressure of sand mining activities Hang Thanh Thi Doan, Thao Thanh Tong, Duyen My Chau Nguyen and Long Ta Bui The Unix of Ho Chi Minh City, Vietnam	ThE3-4 14:15-14:30	Improved conditional generative adversarial nets for hyperspectral sample generation Yulin Qiao, Xiaobo Liu, Zhihua Cai ^{1,2} , GuangjunWang ¹ The Univ. of China, China, ² The Univ. of Qinzhou, China	ThF3-4 14:30-14:45	Environmental monitoring using Philippines' Diwata-2: a case study in Laguna de bay Gay Jane Perez', Mark Jayson Felix ¹ , Shielo Namuco ¹ , Francisco Felicio ¹ , Harry Merida ¹ , Kaye Kristine Vergel ¹ , Ellison Castro ¹ and Joel Joseph S. Marciano, Jr.2 University of the Philippines Dilman, Philippines, ² Advanced Science and Technological Institute, Philippines
ThD3-5 14:30-14:45	Integrated maritime picture for effective domain awareness Marlon Trevor Perera <i>Sri Lanka Navy, Sri Lanka</i>	ThE3-5 14:30-14:45	The modulation transfer function measurement method via using kernel estimation from satellite image Yu-Lin Tsai, Kuo-Hsien Hsu, Yun-Shan Lee and Shiau-Jing Liu National Space Organization, China Taipei	ThF3-5 14:45-15:00	Development of an automated system for monitoring the performance of reforestation activities using Google earth engine Rusty A Lopez, Aeron Adrian C. Maralit, Errico C. Paringt, Czar. Jakiń S. Sarmiento, Regine Anne G. Faelga, Fe Andrea M. Tandoc, Celeste Z. Vidad, Carla Mae M. Arellano, Fatima Joy O. Parnittan and Ayin M. Tandorg University of the Philippines
ThD3-6 14:45-15:00	Investigation of the wave energy potential in black sea by means of satellite data Mehmet Cihan Aktas and Dursun Zafer Seker Istanbul Technical University, Turkey	ThE3-6 14:45-15:00	A spectral-preserving pansharpening method for multisensor satellite imagery Xaojing Huang. Soo Chin Liew and Leong Keong Kwoh The Univ of Singapore, Singapore		

October 18 (Friday) / 09:00-10:30

	Room A		Room B		Room C
Session Title	[FrA1] Algorithms for Remote Sensing Application 8	Session Title	[FrB1] Remote Sensing for Urban and Regional Planning 5	Session Title	[FrC1] Data Fusion 1
Session Chair	Dr. NIK NORASMA CHE YA (UPM, Malaysia)	Session Chair	Prof. Padma Weerakoon (University of Sri Jayewardenepura, Si Lanka)	Session Chairs	Prof. Fuan Tsai (Center for Space and Remote Sensing Research, National Central University, China Taipe)
					Dr. Sompong Liangrocapart (Mahanakorn University of Technology, Thailand)
Date	October 18 (Friday)	Date	October 18 (Friday)	Date	October 18 (Friday)
Time	09:00-10:15	Time	09:00-10:15	Time	09:00-10:30
FrA1-1 09:00-09:15	The effectiveness of spectral features for building extraction using geographic object-based image analysis (GEOBIA) Athaya Atsir Frishila and Muhammad Kamal Universitas Gadjah Mada, Indonesia	FrB1-1 09:00-09:15	Spatial analysis and geovisualization on the relationship between the green land and the population in the urban area - a case study in Taipei city Chia/Yun Chao and Sendo Wang NTNU, China Taipei	FrC1-1 09:00-09:15	Comparison of computer-vision- based photogrammetric software for reconstructing virtual indigenous tribe Yu-Qi Lin and Sendo Wang N.T.N.U., China Taipei
FrA1-2 09:15-09:30	GIS and UAV aerial imaging applications for durian plantation management Nor Fatin Syafiqah, Abdul Rashid Mohamed Shariff and Nik Norasma Che Ya Universit Putra Malaysia, Malaysia	FrB1-2 09:15-09:30	The environmental elements in multi criteria analysis (MCA) of land suitability for comprehensive land use planning in Johor, Malaysia M Zainora Asmawi and Muhammad Faris Abdulah International Islamic University Malaysia, Malaysia	FrC1-2 09:15-09:30	Visualization of virtual indigenous tribes using immersive virtual reality technology Tzu-Heng Chou and Sendo Wang N.T.N.U., China Taipei
FrA1-3 09:30-09:45	Remote sensing based soil moisture downscaling using weighted composite of CCI and GLDAS soil moisture using random forest Jaese Lee ¹ , Sumin Park ¹ , Jungho Im ¹² , Cheolhee Yo ¹ ¹ UIsan National Institute of Science and Technology (UNIST), Korea, ² State University of New York College of Environmental Science and Forestry, USA	FrB1-3 09:30-09:45	Urban growth modeling and trend analysis using multi-temporal satellite data Arugya Shukla and Kamal Jain Indian Institute of Technology, India	FrC1-3 09:30-09:45	Modulation transfer function compensation for optical satellite image restoration using joint statistical model in curvelet domain Soo Mee Jessica Wong, Su Wai Ng, Adhwa Amir Tan National Space Agency, Malaysia
FrA1-4 09:45-10:00	Oil spill automatic detection based on multi-objective evolutionary algorithm Maged Marghany Geomatika University College	FrB1-4 09:45-10:00	Assessing landscape visibility using LIDAR, SAR DEM and globally available elevation data: the case of Bongabong, Oriental mindoro, Philippines Edwin R. Abucay ¹² and YH-Ising Tseng ¹ ¹ National Cheng Kung University, China Taipei, ² University of the Philippines Los Banos, Philippines	FrC1-4 09:45-10:00	Object oriented classification of GF-2 remote sensing images based on improved multi-scale segmentation Xue Ding JinLiang Wang and JunChengShi Yunnan Normal University, China
FrA1-5 10:00-10:15	Geographic objective based image analysis (GEOVIA) for vegetation types identification in agricultural area Siti Martha Uty Br Siraga and Muhammad Kamal Universitas Gadjah Mada, Indonesia	FrB1-5 10:00-10:15	GIS assisted land use structure change analysis in the Colombo district, Sri Lanka K.G.P.K. Weerakoon University of Sri Jayewardenepura, Sri Lanka	FrC1-5 10:00-10:15	Multi-scale and platform vegetation index fusion for high-resolution data composition service in rainfed agricultural area for Thailand research Soravis Supavetch Kasetsart University, Thailand
				FrC1-6 10:15-10:30	Satellite image upscaling using high boost bi-cubic interpolation Somporg Liangrocapart, Suphongsa Khetkeeree, Chapkit Chansamom, Parawata Thanaktivinu Mahanakon Lihversity of Technology, Thaland

	Room D		Room E		Room F
Session Title	[FrD1] GIS & GNSS 10	Session Title	[FrE1] UAV Data Processing	Session Title	[FrF1] Data Fusion 2
Session Chair	Prof. Sang-Wan Kim (sejong university, Korea)	Session Chair	Dr. Suphongsa Khetkeeree (Mahanakorr University of Technology, Thailand)	Session Chairs	Dr. Jae-In Kim (Korea Polar Research Institute, Korea) Prof. Chih-Yuan Huang (National Central University, China Taipe)
Date Time	October 18 (Friday) 09:00-10:30	Date Time	October 18 (Friday) 09:00-10:15	Date Time	October 18 (Friday) 09:00-10:30
FrD1-1 09:00-09:15	Defining the spatial impacts of changing the YouBike fees: a case study of Taipei's elimination of the "first 30 minutes is free" policy Cheng Yen Wu, Chui-Sheng Chiu and Pei-Fen Kuo National Cheng Kung University, China Taipei	FrE1-1 09:00-09:15	Bathymetric mapping of shallow waters in Lian, Batangas using unmanned aerial vehicle (UAV) Katelene Panlilio, Salvacion Mae Pedido, Roseanne Ramos and Ayin Tamondong University of the Philippines	FrF1-1 09:00-09:15	Socio economic profiling using COMPASS application Raymond T. Ong. Julemer Ann G. Aying, Mario S. Rodriguez and Ernir V. Epino Ateneo de Zamboanga University, Philippines
FrD1-2 09:15-09:30	Mapping traditional territories of Taiwanese indigenous people by the volunteered geographic information system Sendo Wang National Taiwan Normal University, China Taipei	FrE1-2 09:15-09:30	Improvement of automatic coregistration of multisensor orthophotos generated from unmanned aerial vehicle using edge sharpening Taeheon Kim ¹ , Kilim Lee ¹ , Won Hee Lee ² , Youkyung Han ² and Junho Yeom ³ ¹ Kyungbook Nat ¹ Univ, Korea, ² Kyungbook Nat ¹ Univ, Korea, ³ Gyeongsang Nat ¹ Univ, Korea	FrF1-2 09:15-09:30	Cloud-based crop monitoring mobile tool for Indian farmers J Kingsly Jeba Ashish Centre for Geospatial Technologies, India
FrD1-3 09:30-09:45	GIS platform for augmenting space situational awareness Panupat Horma ¹ , Supavit Nounkhaow ¹ , Nick Charmong ⁴ and Wasanchai Vongsantikanich ¹ Geo-Informatics and Space Technology Development Agency, Thailand, ² Vector Dynamics, Thailand	FrE1-3 09:30-09:45	Road surface image mosaicking from nadir video camera on UAV using optimized resizing-rotating neighbor frame Suphongsa Khetkeeree, Chapkit Chansamorn, Parawata Thanakitivirul and Sompong Liangrocapart Mahanakom University of Technology, Thailand	FrF1-3 09:30-09:45	Optical character recognition (OCR) technology applied on document classification towards smart document management system Jenie L Plender, Melbert R. Bonotan, Maria Alexis A Barbosa and Donalyn A. Plaza <i>Caraga State University, Philippines</i>
FrD1-4 09:45-10:00	Participatory geographic information system for sustainable ecotourism in mountainous area Krishna Prasad Bhandari and Aman KC Tribhuvan University, Nepal	FrE1-4 09:45-10:00	Riverbed grain size analysis using UAV images techniques KaiChieh Hung and Jen-Yu Han National Taiwan University, China Taipei	FrF1-4 09:45-10:00	Faculty face recognition using deep learning for smart attendance monitoring John Carlo F. Carnba and Jaymer M. Jayoma <i>Caraga State Univ, Philippines</i>
FrD1-5 10:00-10:15	Real-time water quality monitoring using unmanned surface vehicle with automated pH index mapping Alexander T. Dernetlio ¹² and Evelyn B. Tabcada ¹ 'Duiversity of San Carlos, Philippines, ² Caraga State University, Philippines	FrE1-5 10:00-10:15	Fit-for-purpose cadaster approach in metro-colombo with UAV image compilation Nelson Wjenayake ¹ and Jong Hyun Chol ² ¹ Beijing University, China, ² Hojung Solution Co. Ltd, Korea	FrF1-5 10:00-10:15	Solution analysis of scale factor in 3D spatial similarity transformation You-Jing Liu and Jen-Jer Jaw National Taiwan University, China Taipei
FrD1-6 10:15-10:30	Using geographically weighted - binary logistic regression to analyze land cover change phenomenon (case study: North west Java development region) Qorita R. Muzdaifah, Albertus Deliar and Riantini Virtiana Bandung Institute of Technology, indonesia			FrF1-6 10:15-10:30	Modeling and estimation of air pollutants from vehicles in Yangon, Myanmar with google traffic map Takashi Misumi and Walau Takeuchi The University of Tokyo, Japan

3. Poster Session

Guideline for Poster Presentation

Poster presentations submitted full paper and applied to the Best Paper Award will be reviewed by KSRS.



[Preparation]

- Posters should be a visual representation, which could bring initiate informal discussion.
- Layout

1) Panel size: 100 cm wide x 230 cm height

The usable board size: 95 cm wide x 120 cm height (A0 size is recommended)

2) Title: A title should include author's name, affiliation and e-mail address.

[Before the poster presentation]

- The given number of posters will be indicated on a board. Place your poster on the assigned board.

Posting Time: October 14 (Mon) 09:00 ~ October 17 (Thu) 18:00

[During the poster presentation]

- After coffee break on October 15 (Tue) and October 17 (Thu) (15:00-15:30), poster presenters are requested to be at their poster site for conversational explanation of the work. Poster presentations with full paper submission and with identification to enter best paper award competition will be evaluated by on-site reviewers. Several best poster presentations will be awarded at the closing ceremony.

October 15, 2019 (Tuesday) 15:30 ~ 17:00 / October 17, 2019 (Thursday) 15:30 ~ 17:00 Exhibition Hall, 1F, DCC

[After the poster session]

- Every presenter is required to remove their own posters. Posters will be discarded after the time announced below.

Sessions	Attaching	Removing	
Poster Session on Tuesday	09:00 on Tuesday	12:00 on Wednesday	
Poster Session on Thursday	13:00 on Wednesday	after the session	

October 15 (Tuesday) 15:30-17:00 / DCC 1F, Exhibition Hall

[TuP] Poster Session 1

TuP-1	15:30-17:00	Development of integration vehicle sensing data platform for collection and analysis of road driving environment big data Hong-Ki Sung and Kyu-Soo Chong Korea Institute of Civil Engineering and Building Technology, Korea
TuP-2	15:30-17:00	The impact of mining activities on land and water quality through geo-environmental mapping in Noamundi block, Jharkhand, India Kunal Kanti Maiti ¹ , Jatisankar Bandyopadhyay ¹ , Subha Das ¹ and Debashish Chakravarty ² ¹ Vidyasagar University, India, ² Indian Institute of Technology Kharagpur, India
TuP-3	15:30-17:00	Investigation of FF characteristics of spatio-temporal distribution in NK Chengde Piao,Wensi Wang and Ri Jin Yanbian University, China
TuP-4	15:30-17:00	Conversion between natural wetlands and farmland in the Tumen river basin: a multiscale geospatial analysis Yuyan Liu, Hua Cui, Ri Jin Yanbian University, China
TuP-5	15:30-17:00	Spectral simulation on remote sensing reflectance of mixed water with petroleum and sands using hydrolight Weijian Luo, Miaofen Huang, Junjie Yang, Bingcai Chen and Yang Zhuang Guangdong Ocean University, China
TuP-6	15:30-17:00	Deformation monitoring and analysis of civil engineering structures using InSAR and GIS Hao Chang ¹ , Hsin Ta Liu1 and Fuan Tsai ² ¹ CECI Engineering Consultants, Inc., China Taipei, ² National Central University, China Taipei
Tup-7	15:30-17:00	The Philippine earth data resource and observation center – an enabler in disaster risk reduction and management Nash Frederic M. Prado, Julius M. Judan, Lianne Maxine A. Tabanggay, Rocell Nino B. Vicente, Harold Bryan S. Paler and Alvin E. Retamar DOST-Advanced Science and Technology Institute, Philippines
Tup-8	15:30-17:00	Habitat assessment and biomass estimation of little Andaman island of archipelago group of Andaman sea using ALOS PALSAR DEM and synthetic aperture data (SAR) data Anurupa Paul, Dr. Jatisankar Bandyopadhyay and Dr. Ashis Kumar Paul Vidyasagar University, India
Tup-9	15:30-17:00	Analysis of the Rocky coastal geomorphology and geo-chemical aspects in tropical evergreen rainforest of Uttara Kannada coastal districts, Western sahyadri range, India using synthetic aperture radar (SAR) Data Anurupa Paul, Dr. Jatisankar Bandyopadhyay, Subhankar Naskar and Dr. Ashis Kumar Paul Vidyasagar University, India
TuP-10	15:30-17:00	Integration of tree cover and land cover data for estimation of greenhouse gas emissions and removals for REDD+ in Bangladesh Zaheer Iqbal ^{1,2} , Rakibul Hasan Mukul ² , Md. Baktiar Nur Siddiqui ² , Mariam Akhter ² , Md. Tariq Aziz ² , Rashed Jalal ³ , Gael Sola ³ , Anatoli Poultouchidou ³ and K.M. Nazmul Islam ⁴ ¹ RIMS Unit, Bangladesh, ³ Bangladesh Forest Department, Bangladesh, ³ Food and Agriculture Organization of the United Nations, Italy, ⁴ The University of Queensland, Australia
TuP-11	15:30-17:00	Machine learning approaches for crop yield prediction with MODIS and weather data Sungha Ju, Hyoungjoon Lim and Joon Heo Yonsei University, Korea
TuP-12	15:30-17:00	Spectral band adjustment factor of KOMPSAT series for agriculture remote sensing Ho-Yong Ahn, Chan-Won Park, Kyu-Ho So, Sang-II Na and Kyung-Do Lee National Institute of Agricultural Sciences, Korea

TuP-13	15:30-17:00	Rice yield modeling in China using climate data with deep neural network S. B. Cho and Y. W. Lee Pukyong National University, Korea
TuP-14	15:30-17:00	Accuracy and applicability of image registration methods for change detection in restricted access areas Jae-Jun Han ¹ , Sang Wook Park ¹² , Nam Kyung Kim ¹ and Young Wook Lee ¹ ¹ Korea Institute of Nuclear Nonproliferation and Control (KINAC), Korea, ² Chungbuk National University, Korea
TuP-15	15:30-17:00	Monitoring the change on water resources in Ma River Basins, Vietnam using the multi-temporal landsat satellite images Yun-Jae Choung ¹ , Soo-Young Choi ¹ , Nguyen Quoc Hiep ² and Nguyen Anh Hung ² ¹ GEO C&I Co., Ltd, Korea, ² Ministry of Agriculture and Rural Development, Vietnam
TuP-17	15:30-17:00	Estimation of urban sprawl and vegetation loss of metro Cebu through multi-temporal image analysis Chito Patiño, Florencio Campomanes V and Mary Joyce Flores University of the Philippines Cebu, Philippines
TuP-20	15:30-17:00	Remotely sensed urban compactness index of Ulaanbaatar (Mongolia) and Tong Liao (Inner Monglia, China) Myagmartseren Purevtseren ¹ , Dabuxile Gungarjav ¹ , Myagmarjav Indra ² and Enkhtuya Nergui ¹ ¹ National University of Mongolia, Mongolia, ² Mongolian University of Life Sciences, Mongolia
TuP-21	15:30-17:00	Object-based wildfire damage assessment using planetsope images Minkyung Chung and Yongil Kim Seoul National University, Korea
TuP-22	15:30-17:00	Performance analysis of ship detection algorithms based on KOMPSAT-5 SLC image and AIS data Donghan Kim, Yoon-Kyung Lee and Sang-Wan Kim Sejong University, Korea
TuP-23	15:30-17:00	Object-based wildfire damage assessment using planetscope images Jong-geol Park Tokyo Univ.y of Information sciences, Japan
TuP-24	15:30-17:00	Estimation of biomass burning activities over East Asia from satellite observation records Kwon-Ho Lee Gangneung-Wonju National Univ., Korea
TuP-25	15:30-17:00	Performance evaluation according to virtual grid size in the rational function model generation for KOMPSAT-5 SAR imagery Yoonijo Choi ¹ , Seunghwan Hong ² , Ilsuk Park ² , Mohammad Gholami Farkoushi ¹ and Hong-Gyoo Sohn ¹ ¹ Yonsei University, Korea, ² Stryx Inc., Korea
TuP-26	15:30-17:00	A preliminary study of INSAR techniques for the impact of 2016 Taitung earthquake Che-Wei Li and Tee-Ann Teo National Chiao Tung University, China Taipei
TuP-27	15:30-17:00	Tidal creek extraction from airborne LiDAR data using ground filtering techniques Hyejin Kim ¹ , Jaebin Lee ² , Gwangjae Wie ³ and Vongil Kim ¹ ¹ Seoul National University, Korea, ³ Mokpo National University, Korea, ³ Geostory Inc., Korea
TuP-28	15:30-17:00	Leaf chlorophyll content estimation for Moso bamboo using hyperspectral reflectance Zhen-bang Hao ¹ , Li-li Lin ¹ , Jian Liu ² and Kun-yong Yu ¹ ¹ Fujian Agriculture and Forestry University, China, ² Sanming University, China
TuP-29	15:30-17:00	Development and application of satellite-based agro-meteorological drought index (SAMDI) Ye-Seul Yun and Yang-Won Lee Pukyung National Univ., Korea

TuP-30	15:30-17:00	Ice velocity estimation of Narssap Sermia in Greenland using multi-temporal X-band SAR observations Seong-Woo Jung, Seo-Woo Park and Sang-Hoon Hong Pusan National University, Korea
TuP-31	15:30-17:00	Mapping of the altitudinal and topographical patterns of mountainous vegetation in Northeast Japan Ram C. Sharma ¹ , Hidetake Hirayama ² , Mizuki Tomita ¹ and Keitarou Hara ¹ ¹ Tokyo University, Japan, ² Graduate School of Tokyo University, Japan
Tup-32	15:30-17:00	Estimation of local-scale soil moisture by the integration of Sentinel-1 SAR and Sentinel-2 MSI images with deep neural network Soo-Jin Lee and Yang-Won Lee Pukyong National University, Korea
TuP-33	15:30-17:00	Projection of pixel-based rice yields by linking geostationary satellite imagery and a crop model in Northeast Asia Seungtaek Jeong ¹ , Jonghan Ko ¹ and Jong-min Yeom ² ¹ Chonnam National University, Korea, ² Korea Aerospace Research Institute, Korea
TuP-34	15:30-17:00	Arctic sea ice classification using artificial intelligence and NASA team 2 algorithm Ji-Won Kim and Yang-Won Lee Pukyong National Univ., Korea
Tup-35	15:30-17:00	Analysis of long-term variation of observed OMI tropospheric NO ₂ concentration using cumulative percentage and averaging Gyo-Hwang Choo, Jongmin Yoon, Won-Jin Lee, Jeonghyeon Seo, Deok-Rae Kim and Dong-Won Lee National Institute of Environmental Research, Korea
TuP-36	15:30-17:00	Semantic segmentation of landsat images for detection of wildfire-damaged areas Seong-Wook Park and Yang-Won Lee Pukyong National University, Korea
TuP-37	15:30-17:00	Impacts of climate change on rice production in Siem Reap, Cambodia Daophone Phetkhampheng and Jonghan Ko Chonnam National Univ., Korea
TuP-38	15:30-17:00	Development of a simple radiometric calibration system for multispectral images of an unmanned aerial vehicle Taehwan Shin, Seungtaek Jeong and Jonghan Ko Chonnam National Univ., Korea
TuP-39	15:30-17:00	Analysis of spatial pattern of oak wilt outbreak using UAV images Won-Woo Seo ¹ , Hwa-Seon Lee ¹ , Yongwoo Nam ² and Kyu-Sung Lee ¹ ¹ Inha University, Korea, ² National Institute of Forest Science, Korea
TuP-40	15:30-17:00	Inundation extent mapping using dual-polarimetric Sentinel-1 SAR data Woohyun Jeon, Jonghyuk Yi and Youseung Kim SELAB, Inc., Korea
TuP-41	15:30-17:00	RPC based block adjustment using KOMPSAT stereo images GwangSoo Shin and DooChun Seo Korea Aerospace Research Institute (KARI), Korea
TuP-42	15:30-17:00	Spatial plans suitability detection using remote sensing and GIS based on land's potentional Indices case study: Parepare city, Indonesia Ipung, Nabilla Astriviany, Safira Ihdanisa Hidayah, Alrafki Murfi, Shifa Ardhia Mahardika, Moch Rivanda Safrian and Prima Widayani Universitas Gadjah Mada, Indonesia
TuP-43	15:30-17:00	Identification of riparian zone encroachment using remote sensing and GIS techniques Mary Grace A. Loberiano, Roxanne I. Mabunga and Edgardo G. Macatulad University of the Philippines Diliman, Philippines

TuP-45	15:30-17:00	Estimation of groundwater level in the hunshandake sandy land, China based on KBDI and in situ measurements Yaru Muschin ¹ , Wataru Takeuchi ¹ , Hasi Bagan ² and Hasi Eerdun ³ ¹ The University of Tokyo, Japan, ² Shanghai Normal University, China, ³ Beijing Normal University, China
TuP-46	15:30-17:00	Analysis on variation characteristics of remote sensing reflectance and its influencing factors in oil-polluted water Miaofen Huang ¹ , Yang Liu ² , Xufeng Xing ¹ , Nannan Zhang ² and Zhonglin Wang ¹ ¹ Guangdong Ocean University, China, ² PetroChina Exploration & Development Research Institute, China
Tup-47	15:30-17:00	Estimation of gross primary production using numerical weather prediction data with deep neural network: case study of the Korean peninsula Nari Kim and Yang-Won Lee Pukyong National University, Korea
Tup-48	15:30-17:00	A neural network-based land use regression model to estimate spatial-temporal variability of SO2 Ya-Ping Hsiao ¹ , Chih-Da Wu ¹² , Jen-Wei Huang ³ , Tee-AnnTeo ⁴ and Shih-Yuan Lin ⁵ ¹ National Cheng Kung University, China Taipei, ¹ National Health Research Institutes, China Taipei, ³ National Cheng Kung University, China Taipei, ⁴ National Chiao Tung University, China Taipei, ⁵ National Chengchi University, China Taipei
TuP-49	15:30-17:00	Estimate BTEX concentrations variations in a petrochemical parks area using a geographically and temporally weighted regression model Jhao-Yi Wu ¹ , Chih-Da Wu ¹² , Yu-Cheng Chen ² , Chin-Yu Hsu ² and Mu-Jean Chen ² ¹ National Cheng Kung Univ., China Taipei, ² National Health Research Inst., China Taipei
TuP-50	15:30-17:00	Comparison of geospatial-temporal modeling approaches in air pollution estimations Yu-Ting Zeng ¹ , Chih-Da Wu ¹² , Yu-Cheng Chen ² , Chin-Yu Hsu ² and Mu-Jean Chen ² ¹ National Cheng Kung Univ, China Taipei, ² National Health Research Inst., China Taipei
TuP-51	15:30-17:00	Spectral and spatial distribution characteristics of specific absorption coefficient of petroleum-polluted water Miaofen Huang ¹ , Yang Liu ² , Xufeng Xing ¹ , Weijian Luo ¹ and Junjie Yang ¹ ² Guangdong Ocean University, China, ² PetroChina Exploration & Development Research Institute, China
TuP-52	15:30-17:00	Remote sensing-based drought monitoring to detect flach drought using the evaporative stress index in East Asia Won-Ho Nam Hankyong National University, Korea
TuP-53	15:30-17:00	A method to map agricultural land abandonment using high spatial and temporal resolution images Yoshihiko Kobayashi and Tsuguki Kinoshita Ibaraki Univ., Japan
TuP-54	15:30-17:00	Cloud-type analysis of Himawari-8 meteorological satellite data with ancillary data from ground-based instruments Takashi Kadowaki, Nofel Lagrosas, and Hiroaki Kuze Chiba University, Japan
TuP-55	15:30-17:00	A study on the development of urban internal waters flooding visualization system using unreal engine Yu-Yeon Lee, Yeong-Cheol Choi and Yun-Jae Choung GEO C&I Co., Ltd, Korea
TuP-56	15:30-17:00	Building area detection using point clouds produced by dense image matching method Mi-Kyeong Kim, Won-Suk Kwon, Wan-Yong Park and Dae-Sik Shin Agency for Defense Development, Korea
TuP-57	15:30-17:00	An exploratory study on the development of technique for image segmentation using mosaic images Jiyoon Moon and Kwang Jae Lee Korea Aerospace Research Institute, Korea
TuP-58	15:30-17:00	A temporal/spatial analysis of regional/local numerical weather prediction models for infrared satellite image applications on the earth surface Hongtak Lee and Hee-Seob Kim Korea Aerospace Research Institute, Korea

TuP-59	15:30-17:00	Mapping of green infrastructure in Sakura city, central Japan focusing on local climate mitigation Yuuki Nakano and Keitarou Hara Tokyo University of Information Sciences, Japan
TuP-60	15:30-17:00	Multi-sensor integrated application platform for resource satellite images Hsin-Yin Lin ¹ , Shu-Min Hsu ¹ , Yu-Heng Tai ¹ , Fuan Tsai ¹ and Li-Hsueh Chang ² ¹ National Central University, China Taipei, ² National Space Organization, China Taipei
TuP-61	15:30-17:00	Analysis on the key techniques of constructing virtual satellite constellation Xufeng Xing, Shiyi-Xie, Miaofen Huang, Weijian Luo and Junjie Yang Guangdong Ocean University, China
TuP-62	15:30-17:00	Vertical variation characteristics of petroleum concentration and backscatter coefficient in petroleumpolluted water body Xufeng Xing, Miaofen Huang, Weijian Luo, Junjie Yang and Zhonglin Wang Guangdong Ocean University, China
TuP-63	15:30-17:00	The topographic impact of typhoon disturbances on vegetation damage Cheng-En Song, Su-Fen Wang and Yi-Chin Chen National Changhua University of Education, China Taipei
Tup-64	15:30-17:00	Analysis of local velocity anomalies of David Glacier, East Antarctica, by using double-differential InSAR Heejeong Seo and Hoonyol Lee Kangwon National Univ., Korea
TuP-65	15:30-17:00	Analysis of open-pit mining activities using sentinel-1A/B coherence imagery Jihyun Moon and Hoonyol Lee Kangwon National Univ., Korea
TuP-66	15:30-17:00	Change detection in Formosa satellite images via using Kullback-Leibler divergence Li-Fen Huang, Yu-Lin Tsai and Shiau-Jing Liu National Space Organization, China Taipei
Tup-67	15:30-17:00	Planting cold season crops in warm climate setting via temperature-controlled greenhouse with automated irrigation, and solid acidity regulation Alejandro H. Ballado, Jr., Ramon G. Garcia, Kris Eriko E. Dela Cruz, Marianne Joy M. Dela Cruz, Lyle Christian B. Parungao, John Carlo S. Sonza and Sarah Alma P. Bentir Mapúa University, Philippines
TuP-68	15:30-17:00	How earth observation satellite images contributed to natural disaster managements worldwide Hyun-Ok Kim, Yeji Kim and Hyo-Suk Lim Korea Aerospace Research Institute, Korea
TuP-69	15:30-17:00	Multi-temporal interferometry for detecting and monitoring landslide: Mount Kinabalu earthquake case. Husniyah Binti Mahmud and Masahiko Nagai Yamaguchi University, Japan
TuP-70	15:30-17:00	Development of an infrared thermography for wind turbines monitoring by remote sensing techniques Yu-Chuan Lin, Long-Jeng Lee, Po-Ming Lin, Chih-Hao Lin and Ming-Fu Chen Taiwan Instrument Research Institute, National Applied Research Laboratories, China Taipei
Tup-71	15:30-17:00	Simulated radiance at sensor using radiative transfer model with sensor response function in MWIR and validation of simulated radiance against MODIS Data DongHwan Cha, DaeYoung Ahn and DooChun Seo Korea Aerospace Research Institute, Korea
Tup-72	15:30-17:00	On the basic research of data analysis for Terrestrial Laser Scanner Masanori Washikita and Masaaki Shikada Kanazawa Institute of Technology, Japan

TuP-73	15:30-17:00	Analysis of effect of radiometric resolution on radiometric and phenological normalization Daekyo Seo, Yangdam Eo and Jinsoo Park Konkuk Univ,, Korea
TuP-75	15:30-17:00	Spatial prediction of forest soil organic carbon based on random forest algorithm and remote sensing Xiong Yao and Jian Liu Fujian Agriculture and Forestry University, China
Tup-76	15:30-17:00	East African Drought monitoring during rainy seasons Seonyoung Park ¹ , Daehyun Kang ² , Cheolhee Yoo ³ , Jungho Im ³ and Myong-In Lee ³ ¹ Korea Aerospace Research Institute, Korea, ² University of Washington, USA, ³ Ulsan National Institute of Science and Technology, Korea
Tup-77	15:30-17:00	Possibility study of volcanic SO2 emission monitoring with Geostationary Environment Monitoring Spectrometer (GEMS) Won-Jin Lee, Gyo-Hwang Choo, Dong-Won Lee, Seung-Yeon Kim, Hae-Jung Lee, Ara Cho, Kyunghwa Lee, Jeonghyeon Seo and Sangkyun Kim National Institute of Environmental Research, Korea
Tup-78	15:30-17:00	Distinguishing unhealthy potted tree using blocked NDVI derived from NIR video Kousuke Hida and Mitsuharu Tokunaga Kanazawa Institute of Technology, Japan
TuP-79	15:30-17:00	Coherence estimation of widely demanded AW3D30 and SRTM 1-arcsecond space-borne global DEMs Umut Gunes SEFERCIK, Umit GOKMEN and Can ATALAY Zonguldak Bülent Ecevit Uni., Turkey
TuP-80	15:30-17:00	Separation of Landslide Source and Run-out Areas with Machine Learning for Landslide Inventory Refinement Jhe-Syuan Lai Feng Chia University, China Taipei
TuP-81	15:30-17:00	Automated extraction of flood for large scale area using weight average Otsu's method from ALOS-2 dual polarisation and MODIS Husniyah Binti Mahmud and Masahiko Nagai Yamaguchi University, Japan
Tup-84	15:30-17:00	Investigation of forest fire characteristics in transboundary area using remote sensing data Yao Yu, Chengde Piao and Ri Jin Yanbian University, China
TuP-85	15:30-17:00	The comparative study between UAV digital image and Aerial Lidar data for forest height Sang-Hyun Shin, Hye-Won Oh and Chul-Uong Choi Pukyong National University
TuP-86	15:30-17:00	A method for automatic water body detection and estimation the water levels in small reservoirs from SAR images Yoon-Kyung Lee, Boram Lee and Sang-Wan Kim Sejong Univ, Korea
Tup-87	15:30-17:00	Investigation of PM10 based on landsat 8 over urban area and correlated with ground measurement Rika Hernawati and Soni Darmawan Institut Teknologi Nasional, Indonesia
Tup-88	15:30-17:00	Operational remote sensing-based rice monitoring systems in South and Southeast Asia under the RIICE and PRISM initiatives Alice Laborte ¹ , Tri Setiyono ¹ , Jeny Raviz ¹ , Emma Quicho ¹ , Aileen Maunahan ¹ , Eduardo Jimmy Quilang ² , Mary Rose Mabalay ² , Sellaperumal Pazhanivelan ³ , Nguyen Hong Ninh ⁴ , Men Sothy ² , Chharom Chin ⁶ , Massimo Barbieri ⁶ , Francesco Collivignarelli ⁶ , Luca Gatti ⁶ , Francesco Holecz ⁶ ¹ International Rice Research Institute, Philippines, ² Philippine Rice Research Institute, Philippines, ³ Tamil Nadu Agricultural University, India, ⁴ Ministry of Agriculture, Forestry and Fisheries, Cambodia, ⁵ Swiss Agency for Development and Cooperation, Vietnam, ⁶ sarmap, Switzerland
TuP-89	15:30-17:00	Atmospheric correction effectiveness analysis for multispectral satellite image: focused on agricultural land Ho-Yong Ahn, Chan-Won Park, Kyu-Ho So, Kyung-Do Lee and Sang-II Na National Institute of Agricultural Sciences

TuP-90	15:30-17:00	Fining the location alternatives for environmental impact assessment for new bridge construction project using sentinel data Tin Aung Moe Myanmar Geoinformatics Society, Myanmar
TuP-91	15:30-17:00	Landscape change detection using satellite data and GIS techniques in suranaree district, Nakhon Ratchasima, Thailand Intareeya Sutthivanich ¹ , Udomvit Maneewan ¹ , Sasikam Plaiklang ² and Suriporn Charungthanakij ⁸ ¹ Suranaree University of Technology, Thailand, ² Rambhaibarni Rajabhat University, Thailand, ³ Silpakom University, Thailand
TuP-92	15:30-17:00	Sensing potential area for cattle farm in Belitung Timur District Government based on geospatial information approach Fahrudin ¹ and Therissia Hati ² ¹ Public works and spatial planning services, Indonesia, ² Agricultural service and food crops, Indonesia
TuP-93	15:30-17:00	Estimation of relative humidity over East Asia with deep neural networks Junghee Lee ¹ , Haemi Park ² , Cheolhee Yoo ¹ , Seongmun Sim ¹ and Jungho Im ¹ ¹ Ulsan National Institute Science and Technology, Korea, ² Tokyo Univ., Japan
TuP-94	15:30-17:00	Land Surface Temperature (LST) as a part of space based Multi-Parametric approach for (earthquake) precursor studies (S-MAPS) Nabendu Raul ¹ , Madhumita Jana ¹ and P.K. Champatiray ² ¹ /IT(ISM), India, ² IIRS, India
TuP-95	15:30-17:00	Assessing coastal geomorphology impacts on algal blooms in Johor Bahru Water Territory Mohd Nadzri Md Reba ¹ , Fatin Nabihah Syahira Ridzuan ¹ , Monaliza Mohd Din ¹ , Mazlan Hashim ¹ , Po Teen Lim ² , Zaharah Ibrahim ¹ and Mohd Firdaus Abdul-Wahab ¹ ¹ Universiti Teknologi Malaysia, Malaysia, ² University of Malaya, Malaysia
TuP-97	15:30-17:00	Analysis of rice paddy reduction through remote sensing and policy implications Soojeong Myeong Korea Environment Institute, Korea
TuP-99	15:30-17:00	Evaluation of R-based wildfire classification algorithm using KOMPSAT-3A Seung-Min Lee and Jong-Chul Jeong Namseoul Univ., Korea
TuP-100	15:30-17:00	Estimating forest area and analysing its amount of CO ₂ uptake using spatio-temporal data Mina Hong, Sugyeong Park, Hangnan Yu, Halim Lee, YoungJin Ko and Woo-Kyun Lee Korea University, Korea
TuP-101	15:30-17:00	Detection and classification of forest area and forest type using multi-temporal satellite imagery: focusing on Gangwon- province in South and North Korea SuJong Lee, Eurobeen Park, Seungeun Cha, Chul-Hee Lim, Cholho Song and Woo-Kyun Lee Korea University, Korea
TuP-102	15:30-17:00	The relationship of sand and dust storm and land characteristics in mid-latitude region Eurbeen Park, Jiwon Kim, Cholho Song, Hyun-Woo Jo and Woo-Kyun Lee Kore Univ., Korea
TuP-103	15:30-17:00	Extraction of absolute water level in the florida everglades using TANDEM-X bistatic science phase observations with a large perpendicular baseline Sang-Hoon Hong ¹ , Shimon Wdowinski ² and Sang-Wan Kim ³ ¹ Pusan National University, Korea, ² Florida International University, U.S.A, ³ Sejong University, Korea
TuP-104	15:30-17:00	Detecting Potential Vegetation Establishment Area using Remote sensed data in the Aral Sea Jiwon Kim, Cholho Song, Sujong Lee, Sungeun Cha, Hyun-Woo Jo, Eunbeen Park, Jiae An, Yowhan Son, Asia Khamzina and Woo-Kyun Lee Korea Univ., Korea
TuP-105	15:30-17:00	Analysis of forest watershed impact by climate change in Kangwon province Youngjin Ko, Halim Lee, Hyun-Woo Jo, Chul-Hee Lim, Cholho Song, Mina Hong and Woo-Kyun Lee Korea Univ, Korea

TuP-106	15:30-17:00	Analysis of forest fire change using multi-temporal sentinel2 images and land-cover Hyoung-Jin Youn and Jong-Chul Jeong Namseoul Univ., Korea
TuP-107	15:30-17:00	Analysis of the after-effect of forest fire to vegetation quality using landsat 8 OLI/TIRS TM imagery Margaux Elijah P. Neri, Kenny Brem C. Medina, Gilson Andre M. Narciso and Bernadette Anne B. Recto University of the Philippines Diliman, Philippines
TuP-109	15:30-17:00	Yield prediction of onion (allium cepa L.) using hyperspectral imagery and climatic factors Ye-Seong Kang, Sae-Rom Jun, Si-Hyeong Jang, Hye-Young Song, Jun-Woo Park and Chan-Seok Ryu Gyeongsang National University, Korea

October 17 (Thursday) 15:30-17:00 / DCC 1F, Exhibition Hall

[ThP] Poster Session 2

ThP-1	15:30-17:00	Forest Carbon Stock assessment using Earth Observation Hyperion data for Mangrove forest Prem Chandra Pandey ¹ , Akash Anand ² , Prashant K. Srivastava ³ and George P Petropoulos ⁴⁵ ¹ Shiv Nadar University, India, ² Central University of Jharkhand, India, ³ Banaras Hindu University, India, ⁴ Technical University of Crete, Greece, ⁵ Hellenic Agricultural Organization (HAO)-Demeter, Greece
ThP-2	15:30-17:00	Variations of vegetation net primary productivity and its responses to climate change from 1982 to 2015 in Mongolia Sainbuyan.Bayarsaikhan ¹ , Myagmartseren.Purevtseren ² , Gang Bao ³ , Urtnasan Mandakh ¹ , Altantuya.Dorjsuren ¹ , Bayartungalag Batsaikhan ¹ and Yuhai Bao ³ ¹ Mongolian Academy of Science, Mongolia, ² National University of Mongolia, Mongolia, ³ Inner Mongolia Normal University, China
ThP-3	15:30-17:00	Spatio-temporal analysis of drought using NDVI based land cover classification Sumana Sahoo ¹ and Animesh Choudhury ² ¹ Indian Institute of Remote Sensing, India, ² Banaras Hindu University, India
ThP-4	15:30-17:00	Use of landsat data for mapping spatial and temporal variation of landscape pattern from 1987 to 2017: case study of lake group watershed in central Yunnan Province Lv Jie Kunming University of Science and Technology, China
ThP-5	15:30-17:00	Hyperspectral properties of leaves according to different N fertilization regimes and leaf orientation in wheat Gi-Eun Song, Seung-Ha Lee, Yeong-Hun Lee, Jae-Gyeong Jung and Sang-In Shim Gyeongsang National University, Korea
ThP-6	15:30-17:00	Spatiotemporal changes in surface water status of East Kolkata Wetlands (1984-2015): a remote sensing approach Animesh Choudhury ¹ , Avinash Chand Yadav ² and Charu singh ² ¹ Banaras Hindu University, India, ² Indian Institute of Remote Sensing, India
ThP-7	15:30-17:00	Using night-time light to detect economic development and map regional poverty in the Philippines Villanueva and Ardibel S. University of the Philippines Diliman, Philippines
ThP-8	15:30-17:00	Estimation of chlorophull-a concentration in laguna de bay using SENTINEL-3 satellite data M. Conopio, R. K. Japor, A. C. Blanco and A. M. Tamondong University of the Philippines - Diliman, Philippines
ThP-9	15:30-17:00	Identification and intraseasonal variability in the surface upwelling off Sumatra-Java Gang Pan South China Sea Institute of Oceanology, Chinese Academy of Sciences, China
ThP-11	15:30-17:00	Monitoring of surface deformation in Changshu (China) with sentinel-1 data using Tomo-PSInSAR Lifan Zhou, Yu Xia and Shengrong Gong Changshu Institute of Technology, China
ThP-12	15:30-17:00	Monitoring surface deformation on Siberia, Yakutsk using InSAR Yeji Lee, Yoon Taek Jung, Keun Hoo Cho, Minhwa Kim and Sang Eun Park Sejong Univ, Korea
ThP-13	15:30-17:00	Anomalous climatic pattern analysis using sea level anomaly data in Korean peninsula Do-Hyun Hwang, Suho Bak, Unuzaya Enkgjargal and Hong-Joo Yoon Pukyong Univ., Korea
ThP-14	15:30-17:00	Classifying vertical structure of Harae-ri forest in Jeju Island , Korea from optic and RADAR satellite images using artificial neural network Yong-Suk Lee, Won-Kyung Baek and Hyung-Sub Jung Univ. of Seoul, Korea

ThP-15	15:30-17:00	Spectral simulation on remote sensing reflectance of mixed water with petroleum and sands using hydrolight Weijian Luo, Miaofen Huang, Junjie Yang, Bingcai Chen and Yang Zhuang Guangdong Ocean University, China
ThP-16	15:30-17:00	Generation of DEM and study of surface deformation using Synthetic Aperture Radar (SAR) interferometry A.S.Mohammed Abdul Athick ¹ and Manikandan Sathyanarayanan ² ¹ National Central University, China Taipei, ² National Taiwan University, China Taipei
ThP-18	15:30-17:00	Identification and mapping of avalanche hazard zones employing terrain, snow cover and meteorological parameters on western part of Himalayan range A.S.Mohammed Abdul Athick ¹ and Manikandan Sathyanarayanan ² ¹ National Central University, China Taipei, ² National Taiwan University, China Taipei
ThP-19	15:30-17:00	Improving spatial distribution of growing stock volume using MODIS satellite imageries and geospatial information Sungeun Cha, Hyun-Woo Jo, Cholho Song and Woo-Kyun Lee Kore Univ, Korea
ThP-20	15:30-17:00	An estimation of the chlorophyll-a concentration by landsat-8/OLI and sentinel-2A/MSI imageries Yoshinari Oguro ¹ , Tomohisa Konishi ¹ , Seiji Ito ¹ , Chiemi Miura ¹ and Toshiharu Iwai ² ¹ Hiroshima Institute of Technology, Japan, ² Ehime University, Japan
ThP-21	15:30-17:00	Spatial analysis based chemical risk hotspot detection for major cities in South Korea Hangnan Yu, Woo-Kyun Lee and Jong Ryeul Sohn Kore Univ, Korea
ThP-22	15:30-17:00	Landslide extraction with convolutional neural networks using sentinel-2 images Tomohisa Konishi, Seiji Ito and Yoshinari Oguro Hiroshima Institute of Technology, Japan
ThP-23	15:30-17:00	The detection of Urban Heat Island in Jakarta, Indonesia using the landsat 8 satellite data Prita Ayu Permatasari, Arif Kurnia Wijayanto and Luisa Febrina Amalo IPB University, Bogor, Indonesia
ThP-24	15:30-17:00	Assessment of water environment health using fuzzy evaluation theory and AHP method in Xixi Wetland, Hangzhou, China Jiapeng Wang and Dengrong Zhang Hangzhou Normal Univ., China
ThP-25	15:30-17:00	Remote sensing and infectious disease epidemiology: responses of land use and surface temperature on tuberculosis in Malaysia Abdul Rauf Abdul Rasam ¹ , Ahmad Fakhrulidham Zakaria ¹ and Alif Ramli ² ¹ Universiti Teknologi MARA, Malaysia, ² Infectious Disease Control Unit, Malaysia
ThP-26	15:30-17:00	Analysis of geo-positioning accuracy using stereo pairs of Wordview-1 and Pleiades-1B imagery Ha-Eun Baek, Won-Suk Kwon, Mi-Kyeong Kim, Young-Rim Lee and Dae-Sik Shin Agency of Defense Development, Korea
ThP-27	15:30-17:00	Comprehensive analysis of the multi-beam LiDAR self-calibration for mobile mapping system Han Sae Kim ¹ , Kang Hyeok Choi ² and Yongii Kim ¹ ¹ Seoul National Univ., Korea, ² Myongji Univ., Korea
ThP-28	15:30-17:00	Generating and correcting rational polynomial coefficients using image correction model Namhoon Kim, Hyo-Seon Jang, Mohammad Gholami Farkoushi, Yoon-Jo Choi and Hong-Gyoo Sohn Yonsei Univ, Korea
ThP-29	15:30-17:00	3-dimensional ground coordinates determination accuracy analysis based on stereo imaging angle in KOMPSAT-3A DooChun Seo ¹ , DongHan Cha ¹ and HyeJi Kim ² ¹ Korea Aerospace Research Institute, Korea, ² SI Imaging Services, Korea

ThP-30	15:30-17:00	3D poing clouds extraction from high-resolution multi-view satellite images using dense image matching Won-Suk Kwon, Mi-Kyeong Kim, Young-Rim Lee, Hyeon-Seung Song and Dae-Sik Shin Agency of Defense Development, Korea
ThP-31	15:30-17:00	Processing speed improvement on SfM using panoramic images based on camera direction constraints Yuichiro Yamaguchi, Yoshiki Sasaki, Masafumi Nakagawa Shibaura Institute of Technology, Japan
ThP-32	15:30-17:00	Analysis of temperature differences due to cracks and voids in concrete structures. Himi Kazuya and Mitsuharu Tokunaga Kanazawa Institute of Technology, Japan
ThP-33	15:30-17:00	Using cheap RTK and IMU in direct geo-referencing of the UAV imager Ho-Hyun Jeong ¹ , Hye-Won Oh ² and Chul-Uong Choi ² ¹ Korea Land and Geospatial Informatix Corporation, Korea, ² Pukyong National University, Korea
ThP-34	15:30-17:00	Vehicle speed estimation using a low-cost camera from a vertical overhead perspective Bernadette Anne B. Recto, Margaux Elijah P. Neri, Gilson Andre M. Narciso and Kenny Brem C. Medina University of the Philippines Diliman, Philippines
ThP-35	15:30-17:00	Analysis of forest fire damage area in Gangwon-do, Korea using high-resolution aerial images and near-infrared images Sung-Jin Ma Univ. of Seoul, Korea
ThP-36	15:30-17:00	Comparative analysis of feature matching algorithms for extreme region exploration Hyun-mook Lim ¹ , Seil Kim ¹ , Kanghyeok Choi ¹ , Changjae Kim ¹ and Sungchul Hong ² ¹ University of Myongji, Korea, ² Korea Institute of Civil Engineering and Technology
ThP-37	15:30-17:00	Situation visualization system of disaster area using truck-mounted camera Takuho Matsuo and Osamu Uchida Tokai University, Japan
ThP-38	15:30-17:00	Feasibility study on demographic analysis based on spatial analysis applying the G statistics Yuki Kameda and Kiichiro Kumagai Setsunan University, Japan
ThP-39	15:30-17:00	Application of boosted classification and regression models for groundwater potential mapping Sunmin Lee ¹² , Moung-Jin Lee ² and Jeong-Cheol Kim ¹³ ¹ University of Seoul, Korea, ² Korea Environment Institute, Korea, ³ National Institute of Ecology, Korea
ThP-40	15:30-17:00	Performance evaluation of single frequency RTK-GNSS positioning for structure inspection using wearable sensors Kouki Kurita, Shigeki Takahashi and Masafumi Nakagawa Shibaura Institute of Technology, Japan
ThP-41	15:30-17:00	Spatio-temporal change characteristics of apatial interaction networks: a case study within the 6th ring road Beijing Jing Yang, Disheng Yi and Jing Zhang Capi Norm Univ, China
ThP-42	15:30-17:00	Identifying urban districts and spatial combination of functions with fishers' exact test - a case study within the sixth ring road of Beijing, China Disheng Yi, Jing Yang and Jing Zhang <i>Capi Norm Univ, China</i>
ThP-43	15:30-17:00	KOMPSAT open API for satellite information service Yoon-Jeong Jang, Gab-Ho Jeun and Dae-Won Chung Korea Aerospace Research Institute, Korea

ThP-44	15:30-17:00	Tide and wave measurement based on high precision dynamic GNSS technology Rui Shan ¹²³ , Xiaojun Cheng ¹ , Tengfei Zhou ¹ , Yujie Cao ¹ and Lingyu Dong ²³ ¹ Tongji University, China, ² Qingdao National Laboratory for Marine Science and Technology, China, ³ Qingdao Institute of Marine Geology, China
ThP-45	15:30-17:00	Experiments on the early detection method of wandering dementia patients by using GNSS Kenchi Kishimoto, Masaaki Shikada, Riwa Nakamoto and Naotake Nakayama Kanazawa Institute of Technology, Japan
ThP-46	15:30-17:00	Mapping the potential sites for floating photovoltaic plants in the Philippines Michelle V. Japitana ¹ , Maria Lorena L. Tuballa ² , Arnold G. Apduhan ¹ and Michael Lochinvar S. Abundo ³ ¹ Caraga State Univ., Philippines, ² Silliman Univ., Philippines, ³ Nanyang Technological Univ., Philippines
ThP-47	15:30-17:00	Correlation analysis of GNSS ZTD observations and GDAS-Derived yotal precipitable water Yuttapong Rangsanseri ¹ , Weeranat Phasamak ¹ and Seubson Soisuvarn ² ¹ King Mongkut's Institute of Technology Ladkrabang, Thailand, ² NOAA/NESDIS/Center, USA
ThP-48	15:30-17:00	3D modelling of underground and surface utilities mapping with integration of attributes using VBA MACRO A.S.Mohammed Abdul Athick ¹ and Manikandan Sathyanarayanan ² ¹ National Central University, China Taipei, ² National Taiwan University, China Taipei
ThP-49	15:30-17:00	The development of consumable hyperspectral spectral imager Long-Jeng Lee ¹ , Yu-Chuan Lin ¹ , Victor Hao ² , Ming-Hsien Chou ³ and Yuan Shen ⁴ ¹ National Applied Research Laboratories, China Taipei, ² Isuzo Optics Corporation, China Taipei, ³ HC Photonics Corporation, China Taipei, ⁴ National Chung Hsing University, China Taipei
ThP-50	15:30-17:00	In-flight geometrical calibration for formosat-5 panchromatic and multispectral satellite images Li-Hsueh Chang ¹ , Tee-Ann Teo ² , Shih-Chia Peng ¹ , Tun-Yu Liao ¹ , Nai-Yu Chen ¹ and Cynthia Liu ¹ ¹ National Space Organization, China Taipei, ² National Chiao Tung University, China Taipei
ThP-51	15:30-17:00	Gravity effect evaluation for TMA telescope based on CMM measurement Kun-Huan Wu, Shenq-Tsong Chang, Yu-Chuan Lin, Po-Ming Lin, Yu Hsiang Lin and Chun-Chieh Lien Taiwan Instrument Research Institute, National Applied Research Laboratories, China Taipei
ThP-52	15:30-17:00	JPEG2000 image compression for high resolution remote sensing instruments on satellites Nuan-Ya Huang, Jer Ling, Ming-Yuan Yeh, Li-Yu Chang, Albert Lin, and Po-Yen Huang National Space Organization, China Taipei
ThP-53	15:30-17:00	Eight ywars operation of COMS for the ocean monitoring mission1 Young-Min Cho, Hye-Won Kim and Eun-Bin Park Korea Aerospace Research Institute, Korea
ThP-54	15:30-17:00	The status of geostationary environment monitoring spectrometer Hyunkee Hong, Sang-Kyun Kim, Jong-Min Yoon, Won Jun Choi, Kyung-Jung Moon, Sang-Min Kim and Chang Suk Lee National Institute of Environmental Research, Korea
ThP-55	15:30-17:00	Preliminary development of radiometric calibration plan for FORMOSAT-8 remote sensing instrument Kuo-Hsien Hsu and Yun-Shan Lee National Space Organization, China Taipei
ThP-56	15:30-17:00	NovaSAR-1 – first year of operation, and next steps Victoria Irwin and Alex da Silva Curiel Surrey Satellite Technology Ltd, UK
ThP-57	15:30-17:00	A Watermarking technique for hyperspectral images using DWT and hessenberg matrix Geeta Kasana Thapar Institute of Engineering and Technology, India

ThP-58	15:30-17:00	Extraction of rocks and boulders on natural terrain using semantic segmentation Shenlu Jiang, Coco Yin Tung Kwok and Man Sing Wong The Hong Kong Polytechnic University, Hong Kong, China
ThP-59	15:30-17:00	Detection of deforestation on protected forest areas using multi-sensor platform and time series analysis - an environmental monitoring tool Ivy Jean Dilig and Nash Frederic Prado University of the Philippines Diliman, Philippines
ThP-60	15:30-17:00	An efficient method for automatic land-cover classification with high resolution imagery using the object-oriented paradigm Bo Zhao ¹ , Jürgen Pilz ² , Fan Yang ³⁴⁵ , Junping Shen ¹ ¹ Beijing PIESAT Information Technology Co.,Ltd, China, ² Alpen-Adria-Universität Klagenfurt, Austria, ³ Beijing Institute of Geology for Mineral Resources, China, ⁴ Chinese Academy of Geological Sciences, China, ⁵ Chinese Academy of Sciences, China
ThP-61	15:30-17:00	Land cover classification on the korean peninsula using multi-temporal MODIS and GOCI data Myunghee Jung ¹ and Sang Hoon Lee ² ¹ Anyang Univ, Korea, ² Gachon Univ, Korea
ThP-62	15:30-17:00	Accuracy improvement and blending of MHS, SSMIS, and GMI rain rate product using DNN and EBMA Kwangjin Kim and Yang-Won Lee Pukyong Nat. Univ., Korea
ThP-63	15:30-17:00	The effect of the principal component analysis in convolutional neural network for hyperspectral image classification Taehong Kwak, Ahram Song and Yongil Kim Seoul National Univ., Korea
ThP-64	15:30-17:00	Surface reflectance products from the geostationary environmental monitoring sensor Kwon-Ho Lee ¹ and Jung-Moon Yoo ² . ¹ Gangneung-Wonju National University, Korea, ² Ewha Womans University, Korea
ThP-65	15:30-17:00	Application of GEO satellite observation data for atmospheric correction of LEO satellite image Kwon-Ho Lee ¹ and Jong-Min Yeom ² . ¹ Gangneung-Wonju National University, Korea, ² Korea Aerospace Research Institute, Korea
ThP-66	15:30-17:00	Multimodal merging of satellite imagery with meteorological and power plant data in deep convolutional neural network for short-term solar energy prediction Gwangjoong Kim, Hunsoo Song, Minho Kim and Yongil Kim Seoul National Univ, Korea
ThP-67	15:30-17:00	Evaluating suitable flight height and camera angle of a UAV for identifying number plates of motorbikes Kento Kojima, Kazuhiro Naoki and Kohei Cho Tokai University, Japan
ThP-68	15:30-17:00	Use of unmanned aerial vehicle data in near-infrared region to estimate water quality of Miharu dam reservoir, Japan Yoichi Kageyama ¹ , Shin Totsuka ¹ , Masato Ishikawa ² , Bunyu Kobori ² and Daisuke Nagamoto ³ ¹ Akita University, Japan, ² Civil Engineering & Eco-Technology Consultants Co., Miyagi, Japan, ³ Civil Engineering & Eco-Technology Consultants Co., Hokkaido, Japan
ThP-69	15:30-17:00	Comparison between GPM and gridded precipitation product from interpolated rain gauge measurements Archie Veloria ¹ , Gay Jane Perez ¹ , Giovanni Tapang ¹ and Josefino Comiso ¹² ¹ University of the Philippines Diliman, Philippines, ² NASA Goddard Space Flight Center, USA
ThP-70	15:30-17:00	Detailed characteristics of fog occurrences in South Korea using the recent 3 years of visibility data Tae-Ho Kang and Myeong-Seok Suh Kongju National Univ., Korea
ThP-71	15:30-17:00	Space comfort analysis of university canteen based on big data Ye-Qing Ni, Tao Wang, Xiao-Juan Li and Ying-bin Hu <i>Capital Normal Univ., China</i>

ThP-72	15:30-17:00	Low-rank and sparse matrix decomposition with orthogonal complement subspace projection for hyperspectral anomaly detection Xing Wu and Xia Zhang University of Chinese Academy of Sciences, China
ThP-73	15:30-17:00	Determining the coefficient of circular template for fast similarity measurement in image registration Chul-Soo Ye Far East Univ., Korea
ThP-74	15:30-17:00	Efficiency evaluation of AR model-based linear prediction for improvement of spatial-resolution of spotlight mode KOMPSAT-5 image Seung-Jae Lee, Sun-Gu Lee, Do-Chul Yang and Dong-Hyun Kim Korea Aerospace Research Institute, Korea
ThP-75	15:30-17:00	Development of hybrid fog detection algorithm using various fog characteristics Ji-Hye Han, Myoung-Seok Suh, Na-Young Roh and Ha-Yeong Yu Kongju National Univ., Korea
ThP-76	15:30-17:00	Using GEE to estimate soil moisture with data augmentation and SVR Wei Xu, Qirning Qin and Zhaoxu Zhang Peking University, China
ThP-77	15:30-17:00	Self-evaluation of band matching quality in KOMPSAT-3A data processing procedure Jae-Heon Jung, Dae-Soon Park and Youkyung Seo Korea Aerospace Research Institute, Korea
ThP-78	15:30-17:00	Applying the artificial neural networks and unmanned aerial vehicle images to classify various crop types Wan-Li Sun, Shu-Ting Kuo, Chien-Erh Wang, Wan-Chen Lin, Ming-Yun Chang, Yu-Cheng Hsiao and Re-Yang Lee Feng-Chia University, China Taipei
ThP-79	15:30-17:00	Land cover classification for economic crops in Thailand using convolutional neuran networks Tanakorn Sritarapipat ¹ , Siam Lawawirojwong ² and Panu Srestasathiem ² ¹ Suranaree University of Technology, ² Thailand and Geo-Informatics & Space Technology Development Agenc, Thailand
ThP-80	15:30-17:00	Development of quality indicator for stereoscopic plotting using orientation parameters of UAV images Pyung-Chae Lim ¹ , Hae-Min Lee ¹ , Yeong-Min Cho ¹ , Jung-II Shin ¹ , Taejung Kim ¹ and Suk Bae Lee ² ¹ Inha Univ., Korea, ² Gyeongnam National Univ., Korea
ThP-81	15:30-17:00	Multispectral denoising for multi-purpose satellites imaging sensor using wavelet domain deep residual laerning Joonyoung Song and Jong Chul Ye Korea Advanced Institute of Science and Technology, Korea
ThP-82	15:30-17:00	A remote sensing information system for mariculture environment parameters Xufeng Xing, Shiyi Xie, Xiaohong Peng and Miaofen Huang Guangdong Ocean University, China
ThP-83	15:30-17:00	Study on vertical distribution model of backscatter coefficient in petroleum-polluted water bodies Miaofen Huang, Weijian Luo, Yingen Huang and Bingcai Chen Guangdong Ocean University, China
ThP-84	15:30-17:00	A study on the development of open source-based image mosaicking software Seo-I Cheon, Gyeong-Min Kang and Kyeong-Hwan Choi GEO C&I Co., Ltd, Korea
ThP-85	15:30-17:00	Comparison between UNet, modified UNet and dense-attention network (DAN) for building extraction from tripleSat imagery Xingjue Wang ¹ , Xiaoman Huang ¹ , Chong Chen ¹ , Bin Zhou ¹ , Jianjun He ² and Ting Chen ² ¹ Twenty First Century Aerospace Technology (Asia) Pte. Ltd., Singarpore, ² Twenty First Century Aerospace Technology Co., Ltd., China

ThP-86	15:30-17:00	Doppler frequency performance of KOMPSAT-5 measured from worldwide uniform backscattering coefficient area Ho-Ryung Jeong, Dong-Hyun Kim, Do-Chul Yang and Dong-Han Lee Korea Aerospace Research Institute, Korea
ThP-87	15:30-17:00	Application of deep learning algorithms considering spatio-temporal features for crop classification Min-Gyu Park, No-Wook Park Inha University, Korea
ThP-88	15:30-17:00	Effects of class purity of training data on crop classification using 2D-CNN Soyeon Park, No-Wook Park Inha University, Korea
ThP-89	15:30-17:00	Filtering of bridge-slab bending effect in terrestrial laser scanning Masafumi Nakagawa ¹ , Koichi Sasaki ² , Shigeo Matsuda ² and Hirohito Ito ³ ¹ Shibaura Institute of Technology, Japan, ² RIEGL JAPAN Ltd., Japan, ³ Central Consultant Inc., Japan
ThP-90	15:30-17:00	Real-time mapping of construction workers using multilayered LiDAR Masafumi Nakagawa ¹ , Masayoshi Kaseda ¹ and Masakuni Taguchi ² ¹ Shibaura Institute of Technology, Japan, ² Azuma Kigyo Co. Ltd., Japan
ThP-91	15:30-17:00	Lunar crater identification and counting by deep learning Haingja Seo, Sang Min Park, Hyun Ho Lee, Hansol Jeong and Myungjin Choi Inspace, Korea
ThP-92	15:30-17:00	A study on performance improvement of residual NUC algorithm by analyzing side-slither images of KOMPSAT-3A You-Kyung Seo, JaeHeon Jeong, DaeSoon Park, DooChun Seo, DongHan Lee and HyoSuk Lim Korea Aerospace Research Institute, Korea
ThP-93	15:30-17:00	A ground reference target detection method for automatic vicarious calibration of UAV multispectral image Jung-II Shin, Yeong-Min Cho, Hae-Min Lee, Pyung-Chae Lim and Taejung Kim Inha Univ, Korea
ThP-94	15:30-17:00	Combination of 2D-CNN and random forest models for crop classification with UAV imagery Geun-Ho Kwak ¹ , Chan-Won Park ² , Kyung-Do Lee ² , Sang-II Na ² , Ho-Yong Ahn ² and No-Wook Park ¹ ¹ Inha University, Korea, ² National Institute of Agriculture Sciences, Korea
ThP-95	15:30-17:00	An analysis of the effect of tilt angle on MTF of KOMPSAT-3A Hyun-ho Kim, DooChun Seo, JaeHeon Jeong, DaeSoon Park and DongHan Lee Korea Aerospace Research Institute, Korea
ThP-96	15:30-17:00	Automatic colorization of grayscale aerial imagery using XGBoost regression Hye Jin Kim ¹ , Yang Dam Eo ¹ , Dae Kyo Seo ¹ , Jin Sue Park ¹ , Geun Woo Paik ¹ and Wan Yong Park ² ¹ Konkuk University, Korea, ² Agency for Defense Development, Korea
ThP-97	15:30-17:00	Evaluation on structure from motion using binary robust invariant scalable keypoints Min-Lung Cheng and Masashi Matsuoka Tokyo Tech, Japan
ThP-98	15:30-17:00	Conformity analysis on the use of hydro enforcement method to produce digital terrain model using the LiDAR data as Indonesian basic geospatial information, case study: Sumedang district, West Java, Indonesia Ilham Jamaluddin, William Krista Mahendra, Desrina Putri and Muhammad Kamal Universitas Gadjah Mada, Indonesia
ThP-99	15:30-17:00	Mapping fine-scale spatial distribution of population using remote sensing data and POIs with deep learning Tran Thanh Dan ¹² , Manzul Kurnar Hazarika ¹ and Hiroyuki Miyazak ² ¹ Asian Institute of Technology, Thailand, ² The University of Tokyo, Japan

ThP-100	15:30-17:00	Towards the transformation of Digital Elevation Model (DEM) into elevation profile using aggregated transect line Rolyn C. Daguil and Ryan O. Cuarez Caraga State University, Philippines
ThP-101	15:30-17:00	Evaluation of rotation invariant and equivariant CNN for catadioptric panorama Hyung-Woo Kim and Yang-Won Lee Pukyong National University, Korea
ThP-102	15:30-17:00	SAR layover correction using digital surface model Chi-Chuan Lo and Fuan Tsai National Central University, China Taipei
ThP-103	15:30-17:00	Detection and mapping of harmful algal bloom using Geostationary Ocean Color Imager(GOCI) and machine learning Suho Bak, Dohyun Hwang, Unuzaya Enkhjargal and Hongjoo Yoon Pukyong National University, Korea
ThP-104	15:30-17:00	Experimental of combines drone technique and resistivity magnetic method to determine the subsurface archaeological anomalies in Bujang valley, Kekah, Malaysia. Shairatul Akma Roslan ¹ , Mohd Fitri Mohd Yakub ¹ , Shuib Rambat ¹ , Mokhtar Saidin ² , Sharifah Munawwarah Syed Mohd Putra ¹ , Normaisharah Mamat ¹ and Mohd Zamzuri Ab Rashid ^{1,3} ¹ Universiti Teknologi Malaysia, Malaysia, ² Universiti Sains Malaysia, Malaysia, ³ Universiti Teknikal Malaysia Melaka
ThP-105	15:30-17:00	Data mining application to estimate canopy cover based on landsat 8 and LiDAR Data for digital forests classification using ANFIS algorithm Arif Kurnia Wijayanto, Lilik Budi Prasetyo, Yudi Setiawan and Sahid Agustian Hudjimartsu IPB University (Bogor Agricultural University), Indonesia
ThP-106	15:30-17:00	Geocoding for post-disaster compensation projects in Sri Lanka (special reference to selected disaster prone areas) Rathnayaka, R.M.P.S. and Gunawardena, G.M.W.L University of Moratuwa, Sri Lanka
ThP-107	15:30-17:00	Soil survey implementation using Raspberry Pi through colorimetric determination of nitrogen, phosphorus, potassium, and pH level Meo Vincent Caya, Aaron Jeremiah Arcagua, Dred Roie Cleofas, Roland Neil Hornada and Alejandro H. Ballado Jr. Mapúa University, Philippines
ThP-108	15:30-17:00	Variety identification of grape juice based on imaging spectral data Yi Cen, Linshan Zhang, Xuejian Sun and Lifu Zhang Chinese Academy of Sciences, China
ThP-109	15:30-17:00	Multi-sensor mapping and estimation of seagrass aboveground blue carbon stocks using landsat oli and etm+ along merambong coastal water Dalhatu Aliyu Sani ¹² and Mazlan Hashim ¹ ¹ The Univ. of Teknologi Malaysia, Malaysia, ² The Univ. of Yusuf Maitama Sule, Nigeria
ThP-110	15:30-17:00	Statistical assessment of the influence of hydrometeorological factors on fine dusts Seulchan Lee, Jaehwan Jeong and Minha Choi Sungkyunkwan Univ., Korea
ThP-111	15:30-17:00	Soil moisture estimation based on water cloud model at the mountainous area Seongkeun Cho, Jaehwan Jeong, Jongjin Baik and Minha Choi Sungkyunkwan Univ, Korea

4. Special Session

ACRS2019 is an annual conference for exchanging latest development and information to promote remote sensing technology. For a productive and exciting experience during ACRS2019, We provide the opportunity to organize Special Sessions in DCC 1F Conference hall.

Special Session 1 : Application of CAS 500-1/2 Image Utilization - 1 Application of CAS 500-1/2 Image Utilization - 2

Date / Time	October 14 (Mon), 13:30 ~ 17:00 / MoSS1, MoSS2
Room	SS (DCC 1F, #101+102)
Session Chairs	Dr. Jung-II Shin (Inha University, Korea) Prof. You-Kyung Han (Kyungpook National University, Korea)
Organization	Inha University

Code	Time	Title	Author(s)
	13:30-13:40	Opening Address	
MoSS1-1	13:40-14:00	Improving Sensor Model Accuracy using Multi-band and Multi- patch based Matching	Jong-Hwan Son, Wansang Yoon, Hyeongjun Park, Taejung Kim (Inha University)
MoSS1-2	14:00-14:20	Estimation of global image fusion parameters for Kompsat-3a	Sung-Hwan Park (University of Seoul)
MoSS1-3	14:20-14:40	Algorithm and System Development for Automation-based Geospatial Feature Extraction using High Resolution Satellite Imagery	Jong-Hun Lee, Dong-Gook Lee, Dae- Sick Bang, Sung-Geun Park, Hyun-Jik Lee (Sangji University)
MoSS1-4	14:40-15:00	Accuracy Analysis of using Intersection over Union at Normalized Difference Vegetation Index	Hyun Choi (Kyungnam University)
	15:00-15:45	Break	
MoSS2-1	15:45-16:05	DTM Generation from KOMPSAT-3A Stereo Images by Utilizing an Existing Low-resolution DTM	Heeran Ahn, Taejung Kim (3DLabs Co., Ltd.)
MoSS2-2	16:05-16:25	Object-Based Change Detection of VHR Imagery Based on Extension of Various Pixel-Based Methods	Sejung Jung, Won Hee Lee, Youkyung Han (Kyungpook National Univeristy)
MoSS2-3	16:25-16:45	A Study on Urban Change Detection Using Stereo Satellite Data	Yeongjae Jang, Jaehong Oh (Korea Maritime and Ocean University)
	16:45-17:00	Project discussions & conclusions	

 Special Session 2 : Current Satellite Remote Sensing status and future opportunities in Asia - 1 Current Satellite Remote Sensing status and future opportunities in Asia - 2

Date / Time October 15 (Tue), 09:00 ~ 12:30 / TuSS1 Room SS (DCC 1F, #101+102) Session Chairs Prof. Kohei Cho (Tokai University, Japan) Prof. Lal Samarakoon (AIT, Thailand) Organization AARS

Code	Time	Title	Speaker
TuSS1-8	09:00-09:20	National Space Organization & Space Program (China)	Prof. Gu Xingfa, Director, Institute of Remote Sensing and Digital Earth (RADI), Chinese Academy of Sciences
TuSS1-7	09:20-09:40	National Space Organization & Space Program (China-Taipei)	Dr. Ms. Li-Hsueh Chang Satellite image division, National Space Organization, National Applied Research Laboratories (NSPO)
TuSS1-6	09:40-10:00	National Space Program and EO activities (India)	Dr. Sameer Saran, Head Geoinformatics Department, Indian Institute of Remote Sensing (ISRO)
TuSS1-5	10:20-10:40	National Space Program and EO activities (Japan)	Dr. Sinichi Sobue, Japan Aerospace Exploration Agency (JAXA)
	10:40-11:00	Tea/Coffee	
TuSS1-4	11:00-11:20	National Space Program and EO activities (Korea)	Dr. Hyo-Suk Lim, Executive Director of Satellite Operation & Application Center, KARI
TuSS1-3	11:20-11:40	National Space Program and EO activities (Thailand)	Geo-Informatics and Space Technology Development Agency (GISTDA)
TuSS1-2	11:40-12:00	From 400m to 30cm and Analytics; Journey for Innovation in Satrec Initiative	Dr. Eugene D. Kim Business Development Director, Satrec Initiative Co. Ltd, Korea
TuSS1-1	12:00-12:20	Capacity building in satellite technologies and Earth observation data utilization. Know-how transfer programmes for sustainable development.	Ms. Kasia Clatworthy, Know-how Transfer and Training Business Line Manger, Surrey Satellite Technology LTD, UK

Special Session 3 : JAXA Special Session on Sustainable Development using Japanese Satellites - 1

JAXA Special Session on Sustainable Development using Japanese Satellites - 2

Date / Time	October 15 (Tue), 13:30 ~ 17:30 / TuSS3, TuSS4
Room	SS (DCC 1F, #101+102)
Session Chairs	Dr. Shinichi Sobue (JAXA, Japan)
Organization	Japan Aerospace Exploration Agency (JAXA)

Code	Time	Title	Speaker
-	13:30-13:40	Welcome and Appreciation of Prof. Shimoda for his dedication to satellite remote sensing and to AARS/ACRS	Prof. Kohei Cho, General Secretary AARS
TuSS3-1	13:40-14:00	JAXA Space Technology of ALOS series and Initiatives for Sustainable Development in the Asia and the Pacific	Dr. Shinichi Sobue (JAXA)
TuSS3-2	14:00-14:20	A Time Series of Land Subsidance in Busan, Korea with ALOS PALSAR Multi-Temporal Observations	Mr. Seo-Woo Park, Pusan University, South Korea
TuSS3-3	14:20-14:40	Damage Assessment Using ALOS-2/PALSAR-2 for the 2018 Earthquake in Palu, Sulawesi, Indonesia	Dr. Nopphawan Tamkuan, Yamaguchi University, Japan
TuSS3-4	14:40-15:00	Mapping and Detecting Changes of Mangrove over China from 1996 to 2018 with JERS-1, PALSAR and PALSAR-2	Mr. Yuhan Zheng, University of Tokyo, Japan
TuSS3-5	15:00-15:20	Multi-Stage Four-Component Decomposition for Polarimteric SAR Imagery	Dr. Ken Yoong Lee, CRISP, Singapore
	15:20-15:40	Coffee/Tea Break	
TuSS4-1	15:40-16:00	Global Change Observation Mission – Water (GCOM-W) Evaluation of AMSR2 Thin Ice Area Extraction Algorithm Applied to the Sea Ice Zones of the Northern Hemisphere 211	Prof. Kohei Cho, Tokai University, Japan
TuSS4-2	16:00-16:20	2018-2019 observations by Global Change Observation Mission – Climate (GCOM-C)	Dr. Tatsuyuki Sagawa (JAXA)
TuSS4-3	16:20-16:40	Estimation of Forest Above-Ground Biomass using random forest Algorithm Based on Fusion of ALOS PALSAR and Landsat 5TM imageries	Mr. Chathumal M.W., Asian Institute of Technlogy, Thailand
TuSS4-4	16:40-17:00	Brick Kiln Detection in North India with PALSAR and Sentinel imagery using Deep Learning of Small Datasets	Dr. Prakhar Misra, Tokyo University, Japan
TuSS4-5	17:00-17:20	Spatial Mapping of Agricultural Green House Gas Emission for Implementing Paris Agreement on Climate Change in Vietnam	Ms. Thao Tong, Hochiminh City University of Technology, Vietnam
-	17:20-17:30	Discussions and Closing	Dr. Sobue and Dr. Sagawa

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Date / Time	October 16(Wed), 11:00 ~ 12:30 / WeSS1
Room	SS (DCC 1F, #101+102)
Session Chairs	Dr. Choe Nammi (KARI, Korea)
Organization	Korea Aerospace Research Institute (KARI)

Special Session 4 : KOMPSAT Satellite Imagery Commercial Users S/S

Code	Speaker
	[Welcome Address] Dr. Lim Hyo-suk (KARI, Korea)
WeSS1-1	URSA (USA)
WeSS1-2	ISRO NRSC (India)
WeSS1-3	DOST-ASTI (Philippines)
WeSS1-4	SKYWATCH (Canada)

Special Session 5 : Space for Women: Remote Sensing in Asia

Date / Time	October 16 (Wed), 12:30 ~ 13:30 / WeSS2
Room	SS (DCC 1F, #101+102)
Organization	Korea Aerospace Research Institute (KARI)

Code	Program
WeSS2-1	1) Session Background - Introduction to UN's "Space for Women Project" – What is it and Why it is Relevant to Asian Remote Sensing Community?
WeSS2-2	 Panel Discussion A group of panelist will discuss gender issues, including ways to promote capacity building and empowerment of women in the Asian Remote Sensing community.

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Date / Time	October 16 (Wed), 13:30 ~ 17:00 / WeSS3, WeSS4
Room	F (DCC 1F, #108)
Session Chairs	Woo-Kyun Lee (Korea University, Korea)
Organization	Korea Forest Service

Special Session 6 : Korea-China Remote Sensing forum

Code	Time	Program	Speaker
	13:30-13:40	Opening	
WeSS3-1	13:40-14:20	Practices in applying satellite data to the forest sector	Han Aihui, China
WeSS3-2	14:20-15:00	Organization and operation of China's satellite data management center	Wang Wei, China
	15:00-15:10	Coffee Break	
WeSS4-1	15:10-15:40	Current status of National Meteorological Satellite Center and cooperation suggestion for using satellite data in forest	National Meteorological Satellite Center, Korea
WeSS4-2	15:40-16:10	Forest resource monitoring using RS and AI technology	Korea Forest Research Institute, Korea
WeSS4-3	16:10-16:40	Monitoring forest health and damage using time-series satellite images	Korea Forest Research Institute, Korea
	16:40-16:50	Coffee Break	
	16:50-	Panel discussion	

Special Session 7 : 1. Interoperable Platform Using Earth Observation Data: EOPEN solution for Food Security Use Case

2. Interoperable Platform Using Earth Observation Data: EOPEN Use Cases and Platform Demonstration

Date / Time	October 17(Thu), 09:00 ~ 12:30 / ThSS1, ThSS2
Room	SS (DCC 1F, #101+102)
Session Chairs	Prof. Woo-kyun Lee (Korea University, Korea) Guido Vingione (Serco S.p.A, Italy)
Organization	Korea University

Code	Title	Speaker
ThSS1-1	Interoperable Platform Using Earth Observation Data: EOPEN's Overall Concept	Guido Vingione
ThSS1-2	Continuous and Transparent EO, Meteo and Social Media Data Access	Ioannis Papoutsis
ThSS1-3	H2020 EOPEN – An Interoperable Platform	Leslie Gale
ThSS1-4	Knowledge Discovery and Data Analytics from Earth Observation, Meteorological and Social Media Data	Ilias Gialampoukidis
ThSS1-5	11-5Semantic Fusion of Heterogeneous Data Sources for Decision Making and Decision-Support SystemsStefanos Vrochidis	
ThSS1-6	PUC 2: Large Scale Monitoring of Food Security Using Big Earth Data	Vassilis Sitokonstantinou
ThSS1-7	Platform Based Deep-Learning Applications as a Solution for Satellite Big Data Analysis: The Case of Rice Paddy Detection in South Korea	Hyun-Woo Jo
	Break	
ThSS2-1	H2020 EOPEN PUC 1: Flood Use Case 'Scenario' for Vicenza	Francesco Zaffanella
ThSS2-2	Climate Change Use Case for Finland	Ari Karppinen
ThSS2-3	H2020 EOPEN – A Platform for Developing Distributed Applications	Bernard Valentin
ThSS2-4	H2020 EOPEN – Interactive Demo Session	Bernard Valentin

Special Session 8 : Research on analytical technique for satellite observation of Arctic sea ice - 1

Research on analytical technique for satellite observation of Arctic sea ice - $\ensuremath{2}$

Date / Time	October 17(Thu), 13:30 ~ 17:00 / ThSS3, ThSS4
Room	SS (DCC 1F, #101+102)
Session Chairs	Hyun-cheol Kim (Korea Polar Research Institute, Korea)
Organization	Korea Polar Research Institute

Code	Time	Title	Author(s)
ThSS3-1	13:30-13:50	Digital surface model generation for Arctic sea-ice	Jae-In Kim, Chang-Uk Hyun, Hyangsun Han, and Hyun-cheol Kim (Korea Polar Research Institute, Korea)
ThSS3-2	13:50-14:10	Sentinel-1 SAR based sea ice classification for winter season	Jeong-Won Park ¹ , Anton A. Korosov ² , Mohamed Babiker ² , Morten W. Hansen ² , Joong-Sun Won ³ , and Hyun-cheol Kim ¹ (¹ Korea Polar Research Institute, Republic of Korea, ² Nansen Environmental and Remote Sensing Center, Norway, ³ Yonsei University, Korea)
ThSS3-3	14:10-14:30	Al detection and tracking of sea ice using Sentinel-1 data	Hyungyun Jeon ¹ , Duk-jin Kim ¹ , Jungpyo Hong ¹ , and Seung-Hee Kim ² (¹ Seoul National University, Korea, ² Korea Polar Research Institute, Korea)
ThSS3-4	14:30-14:50	Flexural strength of Arctic sea ice using spaceborne polarimetric SAR data	Seung Hee Kim, Hyangsun Han, Jeong-Won Park, Chang-Uk Hyun, Sungjae Lee, Eun-Jin Yang, and Hyun-cheol Kim (Korea Polar Research Institute, Korea)
ThSS3-5	14:50-15:10	SAR destructive multiplicative noise effects analysis based on raw data evaluation and de-speckling filter application	Iman Heidarpour Shahrezaei and Hyun-cheol Kim (Korea Polar Research Institute, Korea)
		Break	
ThSS4-1	15:40-16:00	Tracing the sea ice motion in the Arctic Ocean using satellite and model data	Young Baek Son and Gwang Seob Park (Korea Institute of Ocean Science and Technology, Korea)
ThSS4-2	16:00-16:20	Estimation of daily Arctic sea ice thickness using passive microwave	Young Jun Kim ¹ , Hyun-cheol Kim ² , Daehyeon Han ¹ , Jungho Im ¹ , and Sanggyun Lee ³ (¹ Ulsan National Institute of Science and Technology, Korea, ² Korea Polar Research Institute, Korea, ³ University College London, UK)
ThSS4-3	16:20-16:40	Thin sea ice thickness and small- scale roughness retrieval using SMAP and SMOS observations	Suna Jo ¹ , Hyun-cheol Kim ² , and Sungwook Hong ¹ (¹ Sejong University, Korea, ² Korea Polar Research Institute, Korea)
ThSS4-4	16:40-17:00	Evaluation of net radiation data over Arctic region	Minji Seo, Sungwon Choi, Daeseong Jung, Donghyun Jin, and Kyung-soo Han (Pukyong National University, Korea)

Date / Time October 18(Fri), 09:00 ~ 10:30 / FrSS1					
Room SS (DCC 1F, #101+102)					
Session Chairs	Prof. Anjana Vyas (CEPT University, India) Prof. Peter T. Y. Shih (National Chiao-Tung University, China Taipei)				
Organization	ISPRS TCV/1				

 Special Session 9 	· Geospatial Education and	Outreach: Multi-leve	Education & Training

Code	Title
FrSS1-1	The 3S maker contest program promoted by CSPRS
FrSS1-2	Education and research strategies: issues and challenges
FrSS1-3	An introduction of geomatics education in National Cheng-Kung University

5. Student Session

The Student Session is a session dedicated to presentations about universities across Asia with degree programs and research in the fields of remote sensing, photogrammetry, GIS, and other geospatial information sciences. Students are required to give a 10-minute presentation about their university, their research laboratory, ongoing research by students, and student activities. The Student Session will be held in DCC 1F Special Session Room, on October 16, 2019.

• WEBCON (WeSS6)

Date / Time	October 16 (Wed) 09:00 - 10:30
Room	SS (DCC 1F, #101+102)
Session Chairs	Prof. Kohei Cho (Tokai University, Japan) Prof. Fuan Tsai (National Central University, China Taipei) Prof. Paolo Gamba (Pavia University, Italy) Prof. Taejung Kim (Inha University, Korea)

• White Elephant Session (WeSS5)

Date / Time	October 16 (Wed) 13:30 - 15:00
Room	SS (DCC 1F, #101+102)
Session Chairs	Prof. Armin Gruen (ETH Zurich, Switzerland)

Time	Title	Speaker
13:30-14:00	Thesis Writing	Prof. Armin Gruen (ETH Zurich, Switzerland)
14:00-14:20	How to catch the attention of a reviewer: the right ingredients for a scientific paper	Prof. Paolo Gamba (Pavia University, Italy)
14:20-14:40	How to give a presentation	Prof. Shunji Murai (Tokyo University, Japan)
14:40-15:00	Project Proposal Writing	Prof. Kohei Cho (Tokai University, Japan)

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Date / Time	October 16(Wed), 15:30 ~ 17:00		
Room	SS (DCC 1F, #101+102)		
Session (WeST)	Student Session		
Chairs	Ms. Sheryl Rose Reyes (United Nations University, Japan) Mr. Sung-Joo Yoon (Inha University, Korea)		

Code	Program(Affiliation)	Speaker
WeST-1	Presentation about AARS Student Activities and the ISPRS Student Consortium	Sheryl Rose Reyes (Chair, ISPRS Student Consortium)
WeST-2	Institute of Environmental Science and Meteorology, University of the Philippines	Archie Veloria (Philippines)
WeST-3	Inha University	Jong Hwan Son (South Korea)
WeST-4	Wataru Takeuchi Laboratory The University of the Tokyo	Xuan Truong Tranh (Japan / Viet Nam)
WeST-5	National Central University	Hsuan Yi Li (China Taipei)
WeST-6	Department of Geodetic Engineering University of the Philippines	Roseanne Ramos (Philippines)
WeST-7	Ulsan National Institute of Science and Technology	Young Jun Kim (South Korea)
WeST-8	Shibaura Institute of Technology	Yuichiro Yamaguchi (Japan)
WeST-9	Tongji University	Cao Yujie (China)
WeST-10	National Taiwan Normal University	Yungmin Tsai (China Taipei)
WeST-11	Sultan Qaboos University	Ahsan Ali (Oman)
WeST-12	Universiti Teknologi Petronas	Naheem Adebisi (Malaysia)

• Student Session (WeST)

IV. Exhibition & Sponsor

1. Exhibition Information

Overview

- Location DCC 1F, Exhibition Hall

- Schedule

Exhibition Plan	Date	Time
Booths Decoration	October 13 (Sun)	15:00 ~ 18:00
Exhibition	October 14 (Mon) ~ 17 (Thu)	08:30 ~ 18:00
Booths Dismantling	October 17 (Thu)	18:00 ~ 20:00

Layout



• Exhibitor's List

1	Booth No. B01						
	Surrey Satellite Technology Ltd.						
	Tel	+44-1483-803803	Fax	+44-1483-803804			
	E-Mail	info@sstl.co.uk	Web site	www.sstl.co.uk			
2	Booth No. B02						
	Japan Aerospace Exploration Agency						
	Tel	+81-50-3362-4116	Fax	+81-29-868-2961			
	E-Mail	sagawa.tatsuyuki@jaxa.jp	Web site	www.jaxa.jp			
3	Booth No. B03						
	Twenty First Century Aerospace Technology (Asia) Pte. Ltd.						
	Tel	+65-6351-1399	Fax	+65-6464-0598			
	E-Mail	enquiry@21at.sg	Web site	www.21at.sg			
4	Booth No. B04,05						
	KARI (Korea Aerospace Research Institute)						
	Tel	+82-42-860-2114	Fax	+82-42-860-2004			
	E-Mail	jymoon@kari.re.kr	Web site	www.kari.re.kr			
5	Booth No. B06						
	Beijing PIESAT Information Technology Co., Ltd.						
	Tel	+86-010-82556203	Fax	+86-010-82556924			
	E-Mail	niebin@piesat.cn	Web site	www.piesat.cn			
6	Booth No. B07						
	Young	In Scientific					
	Tel	+82-2-519-7300	Fax	+82-2-519-7400			
	E-Mail	youngin@youngin.com	Web site	www.youngin.com			
7	Booth No. B08						
	SATELLOGIC						
	Tel	+86-18910982563	Fax				
	E-Mail	shaw@satellogic.com	Web site	www.satellogic.com			
8	Booth No. B09						
	PCI Geomatics						
	Tel	+1-905-764-0614	Fax				
	E-Mail	info@pcigeomatics.com	Web site	www.pcigeomatics.com			
9	Booth No. B10						
	Planet						
	Tel	+65-9635-9708	Fax				
	E-Mail	jasminerice@planet.com	Web site	www.planet.com			
	Booth	Booth No. B11					
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10	Ministr	y of Environment, Korea Environment	nstitute (l	KEI)			
10	Tel	+82-44-415-7826	Fax	+82-44-415-7878			
	E-Mail	ejlee@kei.re.kr	Web site	www.ecvam.kei.re.kr			
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11	Samwoo Scientific Co.						
11	Tel	+82-31-5175-3360	Fax	+82-31-5175-3361			
	E-Mail	samwoosc@chol.com	Web site	www.samwoosc.co.kr			
	Booth	No. B13,14					
10	GEO C	&I Co., Ltd.					
ΙZ	Tel	+82-53-857-7312	Fax	+82-53-857-7313			
	E-Mail	sicheon@geocni.com	Web site	www.geocni.com			
	Booth	No. B15					
12	ST Engineering Geo-Insights Pte. Ltd.						
15	Tel	+65-217888	Fax				
	E-Mail	tan.tzehoe@stengg.com	Website	www.geo-insights.ai			
	Booth	Booth No. B16					
14	SELab,	Inc.					
17	Tel	+82-2-888-0850	Fax	+82-2-878-1971			
	E-Mail	sales@selab.co.kr	Web site	www.selab.co.kr			
	Booth No. B17						
15	Korea Polar Research Institute						
10	Tel	+82-32-760-5335	Fax	+82-32-760-5398			
	E-Mail	kimhc@kopri.re.kr	Web site	www.kopri.re.kr			
	Booth	No. B18,19					
16	Gaia3D) Inc.					
10	Tel	+82-2-3397-3475	Fax	+82-2-3397-3478			
	E-Mail	sales@gaia3d.com	Web site	www.gaia3d.com			
	Booth	No. B20					
17	SI Ima	ging Services					
17	Tel	+82-70-7835-1922	Fax	+82-70-7882-6105			
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ACRS2019 Exhibitors Directory

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Surrey Satellite Technology Ltd is at the forefront of space innovation and is the world's leading small satellite company, delivering customisable complete mission solutions for remote sensing, science, navigation, telecommunications and space exploration. Since 1981, SSTL has built and launched more than 60 satellites for 20 international customers, as well as providing training and development programmes, consultancy services, and mission studies for ESA, NASA, international governments and commercial customers.

SSTL is well-known for innovative missions such as the CARBONITE series video imaging satellites, NovaSAR radar imaging satellite and the RemoveDEBRIS technology demonstrator.

Headquartered in Guildford, UK and employs 380 staff.

Booth No. B02 Japan Aerospace Exploration Agency



Address	2-1-1 Sengen, Tsukuba, Ibaraki 305-8505, Japan			
Tel	+81-50-3362-4116	Fax	+81-29-868-2961	
E Mail	sagawa.tatsuyuki@jaxa.jp	Web site	www.jaxa.jp	

The Japan Aerospace Exploration Agency (JAXA) is a core performance agency to support the Japanese government's overall aerospace development and utilization. JAXA conducts integrated operations from basic research and development, to utilization. JAXA obtains an enormous quantity of data from satellites such as the Greenhouse Gases Observation Satellite (GOSAT), the Global Precipitation Measurement/Dual-frequency Precipitation Radar (GPM/DPR), the Global Change Observation Mission (CGOM-W/C), and the Advanced Land Observation Satellite-2 (ALOS-2). JAXA provides accurate and systematic information that elucidates the earth environment change process and supports our lives by continuous earth observation using satellites.

Booth No. B03 Twenty First Century Aerospace Technology (Asia) Pte. Ltd.



Address	61 Science Park Road, #05-17 The Galen, Singapore Science Park II, Singapore 117525		
Tel	+65-6351-1399	Fax	+65-6464-0598
E Mail	enquiry@21at.sg	Web site	www.21at.sg

Twenty First Century Aerospace Technology (Asia) Pte. Ltd. (21AT Asia) has been established in Singapore since July 2014. 21AT Asia is a provider of commercial high-resolution remote sensing imagery products and its value-added services. Our space technology R&D center in Singapore carry out high-resolution image processing research and development, remote sensing information services and applications, new remote sensing devices and equipment. In Singapore office, we have a team of trained and experienced engineers who will manage, process the data and delivery to the customers globally.

Booth No. B04,05 KARI (Korea Aerospace Research Institute)



Address	169-84, Gwahak-ro, Yuseong-gu, Daejeon, 34133, Republic of Korea			
Tel	+82-42-860-2114 Fax +8		+82-42-860-2004	
E Mail	jymoon@kari.re.kr	Web site	www.kari.re.kr	

Satellite development plan of Korea Role of KARI in satellite application Introduction of KOMPSAT series KOMPSAT-3: VHR EO satellite (0.7m GSD) KOMPSAT-3A: VHR EO + IR satellite (0.55m EO & 5.5m IR GSD) KOMPSAT-5: X-band SAR satellite (0.85 ~ 20m GSD) Application of KOMPSAT imagery Forest fire management using KOMPSAT-3 image InSAR application using KOMPSAT-5 images Volcanic eruption management using KOMPSAT-5 images

Booth No. B06 Beijing PIESAT Information Technology Co., Ltd.



Address	The 5th floor, No.A1 Building, Yi Yuan, HaiDian District, Beijing, China			
Tel	+86-010-82556203	Fax	+86-010-82556924	
E Mail	niebin@piesat.cn	Web site	www.piesat.cn	

Beijing PIESAT Information Technology Co., Ltd. (PIESAT for short) is a Chinese high-tech enterprise specializing in research and application of satellite technology (Remote sensing satellite and Navigation satellite). Founded in 2008, PIESAT keeps on providing professional services and applications of domestic satellites as its mission. PIESAT has independently developed software Pixel Information Expert (PIE), offering its clients integrated solution of geospatial information application.

Booth No. B07 Young In Scientific



Address	Gujeong Building, 22, Apgujeong-ro 28-gil, Gangnam-gu, Seoul, 06030, Republic of Korea			
Tel	+82-2-519-7300	Fax	+82-2-519-7400	
E Mail	youngin@youngin.com	Web site	www.youngin.com	

Hyperspectral sensors are line-scanning hyperspectral cameras that collect reflected light through an image slit. One row of spatial pixels is collected per frame as motion occurs, with each pixel containing full spectral data. Motion can be accomplished in two ways: either as an airborne deployment or stationary. Headwall's hyperspectral sensors are small, light, and rugged. The simple but elegant all-concentric design uses precisely-engineered master-quality holographic diffraction gratings and mirrors to deliver high signal-to-noise, high spectral and spatial resolution, and a wide, aberration-corrected field of view.

Booth No. B08 SATELLOGIC



Address	6th floor, Eastern District of National Convention Center, Tianchen East Road, Beijing, China			
Tel	+86-18910982563	Fax		
E Mail	shaw@satellogic.com	Web site	www.satellogic.com	

Founded in 2010, Satellogic is the first vertically integrated geospatial analytics company driving real outcomes for its customers with planetary-scale insights they can trust. Satellogic is backed by leading strategic and financial supporters including Tencent (China), Pitanga (Brazil), Valor Capital Group (US), and CrunchFund (US).

We are building the first scalable earth observation platform with the ability to remap the entire planet at both high-frequency and high-resolution in order to provide affordable geospatial insights for daily decision making. With our satellites, our unique data set, and our solutions we want to help solve the world's most pressing problems.

Booth No. B09 PCI Geomatics



Address	90 Allstate Parkway, Markham, Ontario, L3R6H3, Canada			
Tel	+1-905-764-0614	Fax		
E Mail	info@pcigeomatics.com	Web site	www.pcigeomatics.com	

PCI Geomatics, founded in 1982, is the world leader in geo-imaging products and solutions. PCI Geomatics has set the standard in remote sensing and image processing tools offering customized solutions to the geomatics community in over 135 countries. PCI Geomatics is the developer of **Geomatica®** - a complete and integrated desktop software that features tools for remote sensing, digital photogrammetry, geospatial analysis, map production, mosaicking and more. **Geomatica®** software enables users to apply imagery in support of a wide range of applications such as the environment, agriculture, security and intelligence, defense, as well as in the oil and gas industries.

Booth No. B10 Planet



Address	645 Harrison Street, 4th Floor, San Francisco, CA 94107 USA			
Tel	+65-9635-9708	Fax		
E Mail	jasminerice@planet.com	Web site	www.planet.com	

Planet is an integrated aerospace and data analytics company that operates history's largest commercial fleet of satellites, collecting daily, high resolution imagery of everywhere on earth. Planet's daily snapshot captures a massive amount of information about our changing planet, and is delivered with the software and analytics users need to make critical business decisions. To learn more visit http://www.planet.com.

Booth No. B11 Ministry of Environment, Korea Environment Institute (KEI)



Address	Bldg B. 370 Sicheong-daero, Sejong-si, Republic of Korea			
Tel	+82-44-415-7826	Fax	+82-44-415-7878	
E Mail	ejlee@kei.re.kr	Web site	www.ecvam.kei.re.kr	

Environment Conservation Value Assessment Map (ECVAM) synthetically classifies the land into 5 levels according to its environmental conservation value. ECVAM is developed by overlapping 57 legislative assessment criteria and 8 environmental ecological assessment criteria, each assessment criteria containing a specific spatial distribution of environmental information. The result of ECVAM and other environmental spatial information are open to all users by operating the ECVAM web-service system (https://ecvam.kei.re.kr or https://ecvam.neins.go.kr). ECVAM is widely used in fields of strategic environmental impact assessment, establishment of city and environment planning.

Booth No. B12 Samwoo Scientific Co.



Address	F1015 Misa Centum Biz, 45, Jojeong-daero Hanam-si, Gyeonggi-Do, Republic of Korea			
Tel	+82-31-5175-3360	Fax	+82-31-5175-3361	
E Mail	samwoosc@chol.com	Web site	www.samwoosc.co.kr	

Portable Spectroradiometer, FieldSpec 4 (Malvern Panalytical) VNIR Hyperspectral camera, HSC-2 (Senop) SWIR Hyperspectral camera, Snapscan SWIR (imec)

Booth No. B13,14 GEO C&I Co.,Ltd.



Address	Junmyung Bldg., 435, Hwarang-ro, Dong-gu, Daegu, 41165, Republic of Korea			
Tel	+82-53-857-7312 Fax +82-53-857-7313			
E Mail	sicheon@geocni.com	Web site	www.geocni.com	

GEO C&I Co., Ltd. implements the efficient digital national land management by developing the best solution by using the most advanced GeoSpatial Information Technology such as GIS, Cloud, Big Data, Smart IT, etc. We are expanding actively our business to global markets based on the successful performances of "Ulaanbaatar Integrated Land Management System Establishment in Mongolia", "Integrated Water Resources Management System Establishment in Philippine" and "The Establishment of Renewable Energy Master Plan in Cameroon" as KOICA ODA business. In addition, we lead the Global supreme GeoSpatial information technology based on the accumulated technology and know-how so that we promise to satisfy our clients.

Booth No. B15 ST Engineering Geo-Insights Pte. Ltd.



Address	6 Ang Mo Kio Electronics Park Road, #06-03, Singapore 567711			
Tel	+65-217888 Fax			
E Mail	tan.tzehoe@stengg.com	Web site	www.geo-insights.ai	

ST Engineering Geo-Insights Pte. Ltd. (GI) is a joint venture company formed between DSO National Laboratories (DSO) and ST Engineering Electronics. Leveraging on the strengths of its parent companies, GI offer analytics, information products and valueadded services based on satellite imagery to address growing global demand for timely insights. GI will tap on emerging new space technologies to pursue potential business opportunities for low cost small satellites, or smallsat constellation design, development, manufacturing and operation.

Booth No. B16 SELab, Inc.



Address	8 Nonhyeon-ro 150-gil, Gangnam-gu, Seoul, 06049, Republic of Korea			
Tel	+82-2-888-0850 Fax +82-2-878-1971			
E Mail	sales@selab.co.kr	Web site	www.selab.co.kr	

SELab, Inc. has been developing scientifically proven solutions with in-depth knowledge of advanced geospatial analytics and remotely sensed data. Besides, it holds the exclusive rights to distribute ENVI / IDL software throughout South Korea. Today, many organizations from different industries use its solutions to make better decisions.

During ACRS2019 conference, SELab, Inc. will focus on introducing a newly developed ENVI / IDL add-on module. Especially, the company will show the experimental results using PSInSAR and Deep Learning module, respectively.

Booth No. B17 Korea Polar Research Institute



Korea Polar Research Institute

Address	26 Songdomirae-ro, Yeonsu-gu, Incheon 21990, Republic of Korea			
Tel	+82-32-760-5335 Fax +82-32-760-5398			
E Mail	kimhc@kopri.re.kr	Web site	www.kopri.re.kr	

To investigate the cause of changes in the earth environment, Korea Polar Research Institute (KOPRI) is leading multilateral research activities such as the atmosphere over the polar regions, paleoclimate, geological features, geophysics, glacier, meteorite, marine environment, sea ice, and study on living resources.

The Unit of Arctic Sea-Ice Prediction of KOPRI operates the Satellite Remote Sensing & Cryosphere Information Center and produces invaluable space-time information for the Polar Regions by incorporating various remote sensing data. The research activities on cryosphere conducted by the Unit of Arctic Sea-Ice Prediction of KOPRI are exhibited in the booth.

Booth No. B18,19 Gaia3D Inc.,



Address	#702, 278, Beotkkot-ro, Geumcheon-gu, Seoul, Republic of Korea			
Tel	+82-2-3397-3475 Fax +82-2-3397-3478			
E Mail	sales@gaia3d.com	Web site	www.gaia3d.com	

mago3D could seamlessly integrate AEC(Architecture, Engineering, Construction) and 3D GIS in web browser using Cesium or Web World Wind. Although there has been numerous attempts to integrate AEC and 3D GIS on a single geospatial platform, the outcome of these attempts are not so satisfactory till to date. Difference of data model, massive number of data to be rendered, big volume of file size are among those major technical barriers that hindered seamless integration of indoor and outdoor space.

Booth No. B20 SI Imaging Services



Address	169-84, Gwahak-ro, Yuseong-gu, Daejeon, Republic of Korea			
Tel	+82-70-7835-1922 Fax +82-70-7882-6105			
E Mail	PublicRelations@si-imaging.com	Web site	www.si-imaging.com	

SI Group is consisted of SI Imaging Services (SIIS), Satrec Initiative (SI), and SI Analytics. SIIS is the exclusive worldwide marketing and sales representative of KOMPSAT series KOMPSAT-2, KOMPSAT-3, KOMPSAT-3A and KOMPSAT-5.

SIIS contributes Remote Sensing and Earth observation industries societies by providing very high resolution optical and SAR imag es through over 110 sales partners worldwide.

Customers from industries as well as government and international agencies are using KOMPSAT imagery for their missions and r esearches and achieve good results in several remote sensing applications such as mapping, agriculture, disaster management, a nd so on. SIIS started its business as a satellite image and service provider and extended its business to KOMPSAT operation.

2. Sponsor Information

With thanks to our sponsors and partners



V. General Information

1. Official & Social Events

Official Event

Date & Time

Opening Ceremony

The opening ceremony of ACRS2019 is held on Monday, October 14 at Grand Ballroom, DCC. At the opening ceremony, the ACRS2019 begins with the opening address, congratulatory remarks, welcoming address and followed by the award session including the award of commemorative plague of the 40th ACRS.

10:00 ~ 10:50 / October 14 (Monday), 2019

Place	Grand Ballroom, 2F DCC	
Time	Program	Reference
09:58-10:00	Starting Opening Ceremony	MC
10:00-10:02	VIP Introduction	MC
10:02-10:06	Opening Remarks	Prof. Woo-Kyun Lee (General Chair)
10:06-10:11	Welcome Message	Mayor of Daejeon City
10:11-10:16	Welcome Message2	Prof. Kohei Cho (AARS)
10:16-10:21	Welcome Message3	Prof. Myung-Hee Jo(Kyungpook National University)
10:21-10:26	Congratulatory Message1	President Cheol-ho Lim (KARI)
10:26-10:31	Congratulatory Message2	President Christian Heipke (ISPRS)
10:31-10:36	Congratulatory Message3	President Paolo Gamba (IEEE GRSS)
10:36-10:41	The 40th anniversary	
10:41-10:46	Award Session	
10:46-10:50	Group Photo Shot	MC

Closing Ceremony

The closing ceremony takes approximately 1 hour from 11:30 on Friday, October 18. You are able to look back at the time you spent in ACRS2019 of five days. Also, there are closing remarks, reporting the statistic of ACRS2019 and the introduction of ACRS2020.

Date & Time	11:30 ~ 12:30 / October 18 (Friday), 2019		
Place	Grand Ballroom, 2F DCC		
Time	Program	Reference	
11:30	Beginning Announcement	MC	
11:30-11:35	ACRS2019 Report	Prof. Seong-Woo Jeon (TPC Chair)	
11:35-11:45	Words of Encouragement	Prof. Kohei Cho (AARS)	
11:45-12:15	Award Session		
12:15-12:20	Closing Message	Prof. Woo-Kyun Lee (General Chair)	
12:20-12:30	Promotion of ACRS2020	General Chairs of ACRS2019 and ACRS2020	
12:30	Closing Announcement	MC	

Social Event

Welcome Party

For the memorable welcome party, it begins with opening speech, banquet speech, the toast ceremony with the award of commemorative plague of the 40th ACRS. The Culture Night Event is also ready to be delivered. During the ceremony, upcoming event will be stated on a stage screen. Enjoy the dinner with beautiful performances!

X Tickets which are required for the entry will be provided when register.

Date & Time	18:00 ~ 20:00 / October 14 (Monday), 2019
Place	Grand Ballroom, 2F DCC
Menu	International Buffet

General Conference

Two general conferences are organized during ACRS2019. The first GC in the evening of the second day (Tuesday), and the second GC at the lunch time of the fourth day (Thursday) for those national and regional delegates of AARS who are invited only. The GC is usually participated by around 50-60 delegates.

	Date & Time	Place	Menu
General Conference 1 17:00 ~ 20:00 October 15 (Tuesday), 2019		S.C. Hanok Village	Korean Table d'hote (Han-jeongsik)
General Conference 2	Lunch Time October 17 (Thursday), 2019	Room 204 + 205 2F DCC	Bibimbab Course

Student Night

The Student night is a party only for the students attending ACRS to have fun together. ACRS2019 organizes this on Wednesday evening after the Student Session.

Date & Time	18:00 ~ 19:30 / October 16 (Wednesday), 2019
Place	Room 204 + 205 2F DCC
Attendees	Registered Student participants
Menu	Finger Food and Beer

Technical & Cultural Tour

The tour consists of two main destinations; a technical tour at KARI, the Korea's leading aerospace research institute and a cultural tour at the Munui Cultural Heritage Complex where you can experience Korean traditions and history. Also, on the way to Munui Cultural Heritage Complex, the tour participants will be fascinated with the view of Daecheoung Dam. Due to a large number of tour registrants, there will be two groups assigned for alternate destinations. We kindly ask for the

registrants to come to the Registration Desk by Thursday morning, October 17, 2019 to sign up the group. The assignment of the group is first come first serve basis. X Tour departs after the lunch.

Tour Group Assignment

	Group A & B (80 Pax)	Group C & D (80 Pax)
14:00 ~ 15:30	KARI	Munui Cultural Heritage Complex
16:00 ~ 17:30	Munui Cultural Heritage Complex	KARI

Tour Schedule

Date & Time

13:30 ~ 18:00 / October 18 (Friday), 2019

Departure

Daejeon Convention Center

13:30



Korea Aerospace Research Institute

Korea Aerospace Research Institute (KARI) is a specialized institution founded for national development through the research and development of aerospace scientific technologies.

Munui Cultural Heritage Complex

Attracting many visitors, the place was created to preserve and promote the local traditional culture of Korea; it is a great place to learn about local history, culture and arts.

Arrival

Lottee City Hotel Daejeon

18:00

2. Lunch & Refreshments

Networking Lunch

We spent a lot of care to make sure you enjoy the luncheon despite of our busy programs. Efficient placement for Networking Lunch makes you feel comfortable and to network between the participants.

Also, you are able to enjoy a variety of lunch boxes each day which are included in the registration fee. All the coupons for the lunches are attached to the given name tag. Please keep them and present own coupons for each lunch.

Date & Time	Place	Menu
12:30 ~ 13:30 October 14 (Mon), 2019	The Outdoor Terrace, 2F DCC Conference Hall Lobby, 1F DCC	Lunch Box
12:30 ~ 13:30 October 15 (Tue), 2019	Room 202, 2F DCC	Lunch Box
12:30 ~ 13:30 October 16 (Wed), 2019	Room 202, 2F DCC	Lunch Box
12:30 ~ 13:30 October 17 (Thu), 2019	Room 202, 2F DCC	Bibimbab
12:30 ~ 13:30 October 18 (Fri), 2019	Room 202, 2F DCC	Lunch Box



 ※ Bibimbap is a bowl of rice mixed with meat and assorted vegetables. The ingredients are beneficial to health, and the different color represents Korean's long-held belief in harmony.
 ※ How to eat Bibimbab :

- 1. Put the steamed rice into the bowl where all the ingredients are placed.
- 2. Add gochujang (Korean Hot Pepper Sauce) and sesame oil.
- 3. Mix all the ingredients together with a spoon or chopstick.
- 4. Enjoy your Bibimbab.

Refreshments

Breaks aren't just a time to check phone calls and e-mails, but they are essential to ensure the mind remains focused and the body relaxed. By focusing on these needs, we have created a range of choices for refreshments to ensure you get the best out of the meetings. There are three times of refreshments on each work shop day.

Date	Time	Place	Menu
Oct 14	08:30~09:00	Crand Dall Deam Labby 25 DCC	Coffee, tea & different types of breads
(Mon)	10:50~11:00	GIAHU DAII ROOTT LODDy, 2F DGC	Coffee, tea & different types of cookies
2019	15:00~15:30		Coffee, tea & different types of cookies
Oct 15 - 17 (Tue - Thu)	08:30~09:00	Conference Hall Lobby & Exhibition Hall, 1F DCC	Coffee, tea & different types of breads
	10:30~11:00		Coffee, tea & different types of cookies
2019	15:00~15:30		Coffee, tea & different types of cookies
Oct 18 (Fri) 2019	08:30~09:00	Conference Hall Lobby, 1F DCC	Coffee, tea & different types of breads

3. Registration

ACRS2019 provides its registration from October 13 to October 18, 2019. Both on-site registrants and pre-registrants can enter the conference hall once the registration process completed. The nametags and the registration kits are distributed at the Registration Desk.

Place	Lobby, 1F DCC	
Date & Time	October 13, 2019	12:00 ~ 19:00
	October 14 ~ October 18, 2019	08:00 ~ 18:00



4. Transportation

Complimentary Shuttle Bus

ACRS2019 Local Organizing Committee provides the complimentary shuttle buses for the convenience of its participants. The shuttle buses are arranged between the main hotels and DCC. Please refer to the shuttle bus time table below.

Date	Departure		Stop by	Arrival	Note
	13:00	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
13(Sun), October	15:00	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	17:00	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	18:30	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	8:00	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
14(Man) October	8:30	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
14(MOH), OCLOBER	9:00	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
	21:00	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	3 Buses
	8:00	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
	8:30	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
1E(Tup) Optobor	9:00	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
15(Tue), October	18:00	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	18:30	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	19:00	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	8:00	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
	8:30	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
16(Mad) October	9:00	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
TO(WEU), OCIODEI	18:00	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	18:30	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	19:00	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	8:00	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
	8:30	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
17(Thu) Octobor	9:00	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
17(Thu), Octobel	18:00	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	18:30	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	19:00	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
18(Fri), October	8:00	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
	8:30	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
	9:00	Ramada	Lacky & Hue > Graytone Dunsan > Toyoko-Inn	DCC	
	13:00	DCC	Toyoko-Inn > Graytone Dunsan > Lacky & Hue	Ramada	
	13:00	DCC	Bus Terminal (To Incheon Airport)	Daejeon Station	
	13:30	DCC	Bus Terminal (To Incheon Airport)	Daejeon Station	



Local Transportation

- Public Transportation card is commonly used in Korea. It can be used in all cities and provinces and has a benefit of discount (KRW150). You can buy a prepaid card "T-money" and deposit any amount you need.
- Both cash and the card are acceptable when using buses and taxies.
- Free transfer between buses / subways is possible. It's limited by 3 times and should be done in 30 minutes after getting on / off the buses / subways. Passengers should use the transportation card for free transfer.
- Useful local expressions are listed under the transportation information.

Fare	Cash	KRW 1,400	Card	KRW1,250
Operation Time	Bus	05:30 am - 22:30 pm	Subway	05:30 am – 23:40 pm
Purchasing Place	Convenier	nt Stores		

[Bus]

[Subway]

Fare	Subway Coin	KRW 1,400	Card	KRW1,250	
Operation Time	Subway	05:30 am – 23:40 pm			
Purchasing Place	Convenient Stores				
	Ticket Office , Ticket Machine (Subway Coin)				

*Subway Map



[Taxi]

Fare Additional Fare Payment Option KRW 3,300 (Basic Distance 2Km) KRW 100 for 140m or 34sec Cash / Credit card / Transportation Card

Expression

Please present below materials to the taxi drivers.

Please go to Daejeon Convention Center
대전컨벤션센터로 가주세요
Address : 대전광역시 유성구 엑스포로 107
Please go to Lotte City Hotel
롯데시티호텔로 가주세요
Address : 대전광역시 유성구 엑스포로 123번길 33
Please go to ICC Hotel
ICC호텔로 가주세요
Address : 대전광역시 유성구 엑스포로 123번길55

Please go to Ramada Hotel
라마다호텔로 가주세요
Address : 대전 유성구 계룡로 127
Please go to Government Complex Terminal
대전 정부청사 버스 터미널로 가주세요
Address : 대전광역시 서구 청사로 189
Please go to Daejeon Station
대전역으로 가주세요
Address : 대전광역시 동구 중앙로 215

To Incheon International AirportFareKRW 23,700Duration2hr 40min

Daejeon Government Complex Bus Terminal to Incheon International Airport

Time Table (Departure)				
4:15	8:45	15:35		
4:20	8:55	15:55		
4:25	9:25	16:05		
4:35	9:45	16:15		
4:45	10:25	16:45		
4:55	10:45	17:15		
5:05	11:15	18:15		
5:15	11:35	18:35		
5:25	11:55	18:55		
5:35	12:15	19:25		
5:55	12:35			
6:15	12:55	Late night		
6:35	13:15	3:29		
6:55	13:35	3:34		
7:05	13:45	3:39		
7:15	14:05	3:44		
7:55	14:35	3:49		
8:15	14:55	3:54		
8:35	15:15			

5. Useful Information

About Korea

The Republic of Korea (herein after Korea) is a country visited by approximately ten million international travelers every year. With its long history in culture and tradition, the country has a lot to offer to travelers. Continue reading to learn general information about Korea before visiting.



The Korean peninsula, roughly 1,030 km long and 175 km wide at its narrowest point, is located in Northeast Asia. With Seoul as its capital city, Korea's total land area is 100,033 km². Korea's neighbors include Japan to the east, China to the west, and Democratic People's Republic of Korea (North Korea) across the northern border.

The total population of Korea is approximately 51,635,256 (as of September 2018), with most of the population residing in the Seoul metropolitan area. Outside of Seoul, other large and economically advanced cities such as Busan, Incheon, Daegu, Daejeon, Gwangju and Ulsan also have higher population densities than other cities in Korea.

English	Korean (Hangeul)	Korean Pronunciation
How are you?	안녕하세요?	Annyeong-haseyo?
Thank you.	감사합니다.	Gamsa-hamnida.
Yes.	예.	Ye.
No.	아니오.	Aniyo.
l am sorry	미안합니다.	Mian-hamnida.
The check, please.	계산서 주세요.	Gyesanseo juseyo.
How much is it?	얼마입니까?.	Eolma-imnikka?
Where is the rest room?	화장실이 어디입니까?	Hwajansil oedi-imnikka?

Koreans use Korean. Hangeul, Korean written language characters set, was invented in 1443, during the reign of King Sejong. 'The Hunminjeongeum,' a historical document which provides instructions to educate people using Hangeul, is registered with UNESCO. UNESCO awards a 'King Sejong Literacy Prize,' every year in memory of inventor of Hangeul.

· Venue City 'Daejeon'

Daejeon is South Korea's the fifth-largest metropolitan city. Located in the central region of South Korea, Daejeon serves as a hub of transportation and is at the crossroads of major transport routes. Daejeon is one of South Korea's administration hubs with the Daejeon Government Complex. Currently, 12 national government offices, including Korea Customs Service, Cultural Heritage Administration, and Korean Intellectual Property Office, as well as Patent Court of Korea, are located in Daejeon.

Daejeon, the venue city, is a top science and technology city with 70 representative research institutes and 1,300 high-tech companies such as Daedeok Science Town, Korea Aerospace Research Institute, Korea Electronics and Telecommunications Research Institute, Korea Institute of Geoscience and Mineral Resources are located.

Also, Daejeon has 18 universities, including KAIST and Chungnam National University. Daejeon has earned its name as "Asia's Silicon Valley" and "high technology city".

Daejeon Convention Center(DCC), the conference venue has the internationally large scale center with the most advanced technologies. It has Convention hall accommodating 3,000 peaple, 4 exhibition halls and 20 meeting rooms. There are various accommodations within 7 km nearby.

DCC is located in front of Gapcheon river in the center of Daejeon Metropolitan City, and there are various attractions with National Science Museums, cultural complex and arboretum nearby.



Other Information

Currency / Credit Card / Samsung Pay

The South Korean Won is the currency of Korea (South). Our currency rankings show that the most popular Korea (South) Won exchange rate is the USD to KRW rate. The currency code for Won is KRW, and the currency symbol is #. There are #1, #5, #10, #50, #100, #500 coins and

#1,000, #5,000, #10,000, #50,000 bills. #1 and #5 coins are rare, and almost all prices are rounded to the nearest #10. Foreign bank notes and traveler's checks can be exchanged into Korean Won at the airport, hotels and at all Korean banks. Credit Card, e.g. VISA, MasterCard, American Express and Diners Club, are all widely accepted. Especially nowadays Samsung Pay using mobile phone can be used almost anywhere.

Electricity

In Korea, an outlet for 220 volt is available. Overseas delegates bringing laptop computers and other electrical devices are advised to check whether a transformer is required.

Tipping

Tipping is not customary in Korea. Service charges are included in your bill on the price of rooms, meals, and other services at hotels and restaurants. Sometimes, expensive restaurants and luxury hotels may add a service charge of 10%

Emergency

Medicines for light disease will be prepared at the on-site secretariat room.

- Headache pill, Digestive medicine, Styptic, Band-Aid, Gauze, Antiseptic, Eye drops

There are hospital, fire station and Police office within 10 minutes by taxi from DCC.

- Eulji University Hospital (Tel. 042-611-3000)

- Yuseong fire station (Tel. 042-270-1613)

- Doryong Police Precinct Office (Tel. 042-725-6005)

If you need to take medical treatment, please visit the On-site secretariat.

Emergency Call Number in Korea - "119"

WIFI

All participants can use free WIFI without password in DCC.

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Liu Chang jun	WeA3-1	Macatulad Edgardo G.	WeFI-I	Maunahan Aileen	MoC1-2
Liu Cynthia	ThP-50	Macatulad Edgardo G.	TuP-43	Maunahan Aileen	TuF2-3
Liu Gaohuan	WeB3-5	Madawalagama Sasal	nka L. TuE3-3	, Maunahan Aileen	TuP-88
Liu Hsin Ta	TuP-6	Madhuwanthi R.G.I.	ThB2-7	Mazelan Norimaniah	MoA2-1
Liu Hsuan-Hsuan	MoE1-4	Magallon	TuE3-2	Mazelan Norimaniah	TuD3-2
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Liu Jian	TuP-28	Mahardika Shifa Ardhi	a IuP-42	Mazeli Mohamad Iqbal	MoB2-5
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Liu Shiau-Jing	TuP-66	Mahavik Nattapon	WeUI-5	Meimuna Chusna	MoE2-4
Liu Xiaobo	ThE3-4	Mahendra William Kris		Mengmeng Shi	TuE2-4
Liu Yang	TuP-46	Manenura William Kris	sta InP-98	Merida Harry	ThF3-4
Liu Yang	TuP-51	Maniyuddin wan Rozii	a wan MoB2-5	Merida Harry Casimir E	. WeD1-1
Liu You-Jing	FrF1-5	Mahmud Husniyan Bir		Minh Hang Le	MoA2-2
Liu You-Rui	WeF2-1	Mahmud Hushiyan Bir	III IUP-81	Mirandilla Jean Rochie	lle F. MoC1-6
Liu Yuanping	ThA2-2	Mahmud Mahd Dizalu	din WoF41	 Mishigdorj Odbayar 	MoD2-6
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Liu Zhanyu	TuA3-5	Maiatuldura	ThD2 F	Misra Ankita	ThD2-2
Lkhamjav Ochirkhuyag	MoD2-6	Makinono Contillon M	TTDZ-C	Misra Mandvi	WeB4-5
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Lo Nan-Chang	MoA1-3	Malak Nurul Nadia Ab		Miura Chiemi	ThP-20
Lo Tse-Wei	WeD2-1	Malaam Juanita		Miura Hiroyuki	ThA2-1
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Lokman Eleanor Daniel	la bt ThD2-7	Manala Syanunizani A		Mohamed Norlen	MoB2-5
Lopena Trisha Mae	WeC1-3		IUFZ-3	, Monay	TuE3-2
Lopez Rusty	MoC2-2	Managuan Udamuit	INP-2	Monica Donna	WeC2-5
Lopez Rusty A.	ThF3-5	Monoowon Udomuit	VVeB4-1	Moon Jihyun	TuP-65
Loretero Michael	MoF2-2	Managewan Udomvit	Wer I-5	Moon Jiyoon	TuP-57
Losiri Chudech	ThA1-6	Ivianeewan Udomvit	IUP-91	Moon Kyung-Jung	ThP-54
Lozada Donna May C.	WeE4-6	ivianjur Belay	WeA2-6	Morales Edsel Matt O.	ThF1-4
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Lu Ya-Hsuan	WeC2-2	ivianutnasha Shariff	IVI0B2-2	Moumtzidou Anastasia	TuC3-6

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Muharam Farrah Meliss	a MoA1-2	Neri Margaux Elijah P.	ThP-34	Paguirigan Neale	TuD1-5
Muharam Farrah Meliss	a TuA3-3	Ng Su Wai	FrC1-3	Pahrol Muhammad Alfa	tih MoB1-2
Muharam Farrah Meliss	a ThD1-6	Na Uen-China	ThB3-4	Pahrol Muhammad Alfa	tih MoB2-5
Muharram Fairun Wahio	dil MoE1-7	Nouven Duven My Cha	u ThD3-4	Paik Geun Woo	ThP-96
Muharram Fairun Wahio	til ThA3-2	Nguyen Manh Van	ThC1-1	Paing Tan Ngai	TuA3-3
Mukul Rakibul Hasan	TuP-10	Nauven Minh Hieu	WeC4-4	Pakes Llho	TuF3-4
Muramatsu Kanako	WeC2-1	Ni Ye-Oina	ThP-71	Palconit Fleonor V	WeA4-3
Murfi Alrafki	TuP-42	NICODEME Claire	We43-5	Paler Harold Bryan S	TuP-7
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Muschin Varu	TuP-45	Ninh Nauven Hona	TuP-88	Pan Gang	ThP-9
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Muslim Aidy M	TuD1-1	Ninsawat Sarawut	ThA1-6	Panagoda Hemalal	MoE1-6
Muslim Aidy M	WeΔ1-1	Nisha BAO	TuF1-6	Pandey Prem Chandra	ThP-1
Muslim Aidy M	WeD4-3	Noh. Joon-Woo	WeD2-6	Panlilio Katelene	FrF1-1
Mustanha Norwati	WeC3-/	Nominholor Kh	ThD1-4	Panoutsis Ioannis	ThΔ3-7
Muto Masanori	WaA3-4	Nominbolor Khurel	W/oE3-/	Panoutsis Ioannis	ThR2-6
Mutreia Cuneet	WeR3-2	Noraema Nik	MoC1-7	Papoutsis Ioannis	ThE1_6
Muzdalifah Oonita P	FrD1-6	Norbiato Daniele	ThE1-6	Parola Artha	ThC2-3
Muzualitati Qotitta N. Mua Tin Tin	WeC1-4	Nordin Zaini	WeD3-1	Paringit Enrico	MoC2-2
Myoong Socioong	TuD-07	Nounkhaow Supavit	ErD1_2	Paringit Enrico C	MoC1-6
Myeony Soujeony	ThD1 2	Nozoki Diku		Paringit Enrico C.	WoP1 2
wyint way roe Aung	TTDT-3	Nozaki Riku	TUES 6	Paringit Enrico C.	VVEDI-Z
		NUZdKI KIKU	10F3-0	Paringit Ennuo C. Dark Chan Wan	111F3-3 Tup 10
NI		Nursai wini ikuai	WeEZ-4	Park Chan-Won	
N		Nursuyi Nurulbuda Khairudin	WeA3-Z	Park Charl-Won	TUP-89
Na Sang-II	TuP-12	Nuruinuda Khairudin	MOA I-Z	Park Unan-won	
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Nagai Yumiko	TuA1-4	Ogawara Kakuji	WeC1-2	Park Eun-Bin	InP-53
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Nakagawa Masafumi	TuF3-6	Oquis Gus Kali R.	TuC3-3	Park Haemi	TUP-93
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Nakagawa Masafumi	ThP-40	Oquis Gus Kali R.	WeC1-3	Park Hye-Ji	IND2-4
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Nakavama Naotake	ThP-45	Oh Sung-Chan	TuF1-2	Park Jonghyuck	WeC4-2
Nakazono Etsuko	MoC2-1	Okamoto Shoii	TuA1-4	Park Jun-Woo	TUP-109
Nam Do Hoai	WeB3-4	Oktaviani Nadva	WeA3-2	Park Min-Gyu	ThP-87
Nam Won-Ho	TuP-52	Ong Raymond T.	ThF2-5	Park No-Wook	WeCI-I
Nam Yongwoo	TuP-39	Ong Raymond T.	FrF1-1	Park No-Wook	ThP-87
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Nasanbat Elbeniargal	MoD2-6	P		Park Sangyoon	WeC4-4
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Park Sugyeong	TuP-100	Podila Prasuna	MoC1-2	R Kristian	TuE3-2
Park Sumin	WeD2-4	Poultouchidou Anatoli	TuP-10	D M DQ	ThD-106
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Park Wan Yong	ThP-96	Pour Amin Beiranvand	TuD1-1	Radam Eve Danhne	TuD1-5
Park Wan-Yong	TuP-56	Pour Amin Beiranvand	WeA1-1	Radhavan Venkatesh	MoC2-3
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Park Yongcheol	WeA1-1	Pradhan Biswajeet	MoF1-6	Ragunath K P	ТиС2-6
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Paul Anurupa	TUP-8	Pramarn Songporn	ThB3-2	Rajanayake Anuradha	MoF1-5
Paul Anurupa	TUP-9	Pramudya Fabian Surya	1 IND2-3	Rala Arnel	MoC1-2
Paul Dr. Ashis Kumar		Prananua Aluo Restu A	yi iuaz-ə	Rala Arnel B.	TuF2-3
Paul DI. ASHIS Kumar Daz Albarta Appia Mali	IUP-9	Prasauli Prabilu Dragortori Witchovodo	IVIOU 1-2 ThD1 1	Ramakrishnan Balaji	ThD2-2
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Pham Van-Manh	MoB2-1	ThP-104		Reba Mond Nadzri Md	IUAZ-4
Phasamak Weeranat	ThP-47	Putra Yogyrema Setyan	to ThF2-3	Reba Mohd Nadzri Md	Weez-3
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Rodriguez Mario S.	ThF2-5	Satriawan Tin Widyani	Tu/	41-5 S	harma Ram C.	TuP-31
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Rosenqvist Ake	MoA2-5	Seejata Kamonchat	Mol	D2-7 S	hen Sheng-Ang	WeE4-2
Rosenqvist Ake	WeA3-6	Seejata Kamonchat	Tul	B3-2 S	hen Yuan	ThP-49
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Rukieh Mohamad	TuD3-5	SEFERCIK Umut Gune	s Tul	E1-3 S	hih Peter T.Y.	TuF2-6
Ryu Chan-Seok	TuP-109	SEFERCIK Umut Gune	s Tul	P-79 S	hih Peter T.Y.	WeD2-2
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Sahani Mazrura	MoB2-5	Seo Jeonghyeon	Tul	P-35 S	hiu Herman Yiu Kay	MoA2-7
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