

# Let's face the reality

- COVID-19 has changed our way of managing GRSS, like all scientific societies, and many of its initiatives.
- The effects of the pandemics are not going away soon, and some of them may remain forever.
- There were many challenges, but also opportunities, and we are learning a lot.





# Conferences: challenging year!

- We had the opportunity to experiment immediately hybrid events at M2GARSS (small workshop), but we were forced by the pandemic to move IGARSS 2020 to a fully virtual event.
- All Societies have been invited by IEEE to prepare all our conferences for 2021 to be run as hybrid events.
- There are uncertainties on the economic model to be selected: "free tickets" attract, but the retention is low. High fee are not feasible: where is the right balance?





### **Geoscience and Remote Sensing Society**

### Monday, September 28

Mon. 28 Sep. 12:00 - 14:00 (UTC)

Mon. 28 Sep. 20:00 - 22:00 China Standard Time (UTC +8)

Mon, 28 Sep, 14:00 - 16:00 Central Europe Summer Time (UTC +2)

Mon, 28 Sep, 05:00 - 07:00 Pacific Daylight Time (UTC -7)

Event Ended PLEN: Opening and Plenary Session

Mon, 28 Sep, 14:05 - 14:25 (UTC)

Mon. 28 Sep. 22:05 - 22:25 China Standard Time (UTC +8)

Mon, 28 Sep, 16:05 - 16:25 Central Europe Summer Time (UTC +2)

Mon. 28 Sep. 07:05 - 07:25 Pacific Daylight Time (UTC -7)

Event Ended Platinum Sponsor How NASA Studies Earth's Weather

Mon, 28 Sep, 14:30 - 16:30 (UTC)

Mon, 28 Sep, 22:30 - 00:30 China Standard Time (UTC +8)

Mon, 28 Sep. 16:30 - 18:30 Central Europe Summer Time (UTC +2)

Mon, 28 Sep, 07:30 - 09:30 Pacific Daylight Time (UTC -7)

#### TU1.R17: Machine Learning for Earth Observation I

Live Session has Ended

Tue, 29 Sep, 12:00 - 14:00 (UTC)

Tue, 29 Sep, 20:00 - 22:00 China Standard Time (UTC +8)

Tue, 29 Sep, 14:00 - 16:00 Central Europe Summer Time (UTC +2)

Tue, 29 Sep, 05:00 - 07:00 Pacific Daylight Time (UTC -7)

Session Manager: Diana Michelle Cruz Lainez

Session Co-Chairs: Ronny Hänsch, German Aerospace Center (DLR) and Andrea Marinoni, Arctic University of Norway

Sebastian Haan, Fabio Ramos, Dietmar Muller, University of Sydney, Australia

TU1.R17.1: MULTI-OBJECTIVE OPTIMIZATION FOR ACTIVE SENSOR FUSION

Track: Special Themes



12:00-12:10 (UTC) 20:00-20:10 (UTC +8)

14:00-14:10 (UTC +2)

05:00-05:10 (UTC -7)

## Technical Program / Session TU1.R17 / Paper TU1.R17.1

#### TU1.R17.1

#### **MULTI-OBJECTIVE OPTIMIZATION FOR ACTIVE SENSOR FUSION**

Sehastian Haan Fabio Ramos Dietmar Muller University of Sydney, Australia



#### Session:

Machine Learning for Earth Observation I

#### Track:

Special Themes

#### **Presentation Time:**

Tue, 29 Sep, 12:00-12:10 (UTC)

#### Presentation

#### Multi-objective Optimization for Active Sensor Fusion

Sebastian Haan<sup>1</sup>, Dietmar Müller<sup>2</sup>, and Fabio Ramos<sup>3</sup>

Sydney Informatics Hub, The University of Sydney 2FarthByte Group. School of Get Sances The University of Sydney <sup>3</sup>Centre for Translational Da e. The University of Sydney



Live Session has Ended

#### Discussion

After clicking the Join the Discussion button below, be sure to **REPLY** to the specific paper you wish to direct your comment to.

#### Session

TU1.R17.1: MULTI-OBJECTIVE OPTIMIZATION FOR ACTIVE SENSOR FUSION
Sebastian Haan, Fabio Ramos, Dietmar Muller,
University of Sydney, Australia

TU1.R17.2: TRAINING GENERAL REPRESENTATIONS FOR REMOTE SENSING LISING IN-DOMAIN KNOWLEDGE

Neil Houlsby, Google, Switzerland

TU1.R17.3: REMOTE SENSING IMAGE CAPTIONING WITH SVM-BASED DECODING Genc Hoxha, Farid Melgani, University of Trento, Italy

TU1.R17.4: VISUAL LOCALIZATION BASED ON REMOTE SENSING SCENE MATCHING WITH SIAMESE FEATURE AGGREGATION NETWORK Polytechnical University China

TU1.R17.5: STEREO MATCHING OF VHR REMOTE SENSING IMAGES VIA BIDIRECTIONAL PYRAMID

Rongshu Tao, Yuming Xiang, Hongjian You, Chinese Academy of Sciences, China

TU1.R17.6: Angular Luminance for Material Segmentation
Jia Xue, Matthew Purri, Kristin Dana, Rutgers

University, United States

TU1.R17.7: REMOTE SENSING IMAGE SEGMENTATION METHOD BASED ON HRNET Zhi Cheng, Huanggang Polytechnic College, China.



## "Ad hoc" webinars

- Short webinars (20 min.) with a longer interactive session (40 min):
  - each of the TCs presents its activities as a way to have the IGARSS TC meeting on-line;
  - a few selected Chapters present
    - how to set up a new chapter (e.g., Tunisia);
    - how to successfully run a chapter (e.g., Brazil);
    - how to engage in ChapNets and inter-chapter activities (e.g., an Indian Chapter).
- The webinars are recorded, and posted on the GRSS YouTube channel with a news story & link in the GRSS web site, as a way to show what GRSS communities can do.





# **Examples**

- "Benchmarking ML4RS" by the Image Analysis and Data Fusion TC: https://www.youtube.com/watch?v=AyScQJwdckE
- The Frequency Allocation in Remote Sensing TC activities: https://www.youtube.com/watch?v=q8l99Mkwyi8
- How to run a Chapter by the Kolkata Chapter: https://www.youtube.com/watch?v=ltpGob4hBLc
- GRSS Social Media Ambassadors and their current activities: https://www.youtube.com/watch?v=O7B0 uXCFAU





# **Opportunities for the AdCom**

- Limit the in-person attendance to the AdCom meetings only to voting AdCom members, with remote attendance by other "AdCom at large members" and (if useful) additional sessions for business open to discussion by the whole GRSS membership.
- Organize "hybrid mode" Strategic Planning Meetings in November, with the aim to involve more members and communities, and make them able to provide inputs to the discussion by designating a speaker, who remotely addresses the AdCom.



# More opportunities

### Education

- Improve the Education portfolio with more MOOC modules
- Start working on an online GRSS program for higher education
- Coordinate GRSS Summer Schools all over the world with remote contributions from top speakers

### Information Resources

- YouTube channel to broadcast GRSS information and advertise GRSS activities
- More SMAs





## ... and even more

### Global Activities

- Online outreach and support for regional activities
- Organize more "local" and "regional" conferences: in Europe, in North America?
- On-line interaction of a more entertaining nature. 5-10 minute video clips that are compelling and informative serious but not overly academic. About jobs, networking, applications, how to get ahead, life experiences in GRSS, how to get involved, etc.

## InterSociety

 Joint remote activities (summer schools, webinars, AdCom meetings) with other Societies: GRSS & ISPRS in Brazil

