



## **Commission GASS 2023 Report**

### **Commission F**

#### **1. Elections of Commission Officers**

|            |                                |
|------------|--------------------------------|
| Chair      | Motoyuki Sato (Japan)          |
| Vice-Chair | Slawomir J. Ambroziak (Poland) |
| Senior ECR | Fikadu Dagefu (USA)            |
| ECR2       | Gargi Rakshit (India)          |

#### **2. Review of Terms of Reference**

We had some discussion on the Terms of Reference, such as: "perhaps, we should, reconsider reintroducing the expression 'electromagnetic interaction', but we had no conclusion in this moment. We will continue discussin.

#### **3. Any changes/confirmation in Working Groups and other organizations**

A new working group was proposed:

F.3 Environmental Sensing for Disaster Management based on Communication and Remote Sensing Systems (NEW)  
Chair: Ambroziak Slawomir, Thomas Kürner, Sana Salous, Yasuhide Hobara, Motoyuki Sato, Madhu Chandra, Tullio Tanzi, Tobias Rommel

#### **4. Technical Advisory Committee**

#### **5. Preparation of Future Meetings/Identification of meetings to be supported (cfr. Commission budget)**

#### **6. Proposed sessions and conveners for AT-RASC 2024**

Tentative proposal:

1. Remote Sensing Image Processing with Deep Learning (Si-Wei Chen, Le-Yuan Fang)
2. Remote sensing of precipitation (Venkata Chandrasekar, Tomoo Ushio)
3. Remote Sensing of Earth and Planetary Atmospheres (Animesh Maitra, Tomoo Ushio)
4. Subsurface sensing/ GPR (Motoyuki Sato, Lorenzo Capineri)
5. COST CA20120 INTERACT: Measurement & Modelling of Radio Waves Propagation for Indoor Communications (Slawomir J. Ambroziak, Kamran Sayrafian)
6. Radio Frequency Interference (RFI) Issues in Microwave Remote Sensing (Paolo de Matthaëis, Albin Gasiewski)
7. Geophysical parameter retrieval
8. Ground-base measurement
9. Environmental Sensing for Disaster Management based on Communication and Remote Sensing Systems (Madhu Chandra)
10. Open session (Motoyuki Sato)
11. Deep learning in Artificial Electromagnetic Materials (Willie Padilla, Dimitris Tzarouchis, Pedro Cruz)