



*sensors*



an Open Access Journal by MDPI

## Satellite Networks for Massive IoT Communication

Guest Editors:

### **Dr. Riccardo De Gaudenzi**

European Space Agency,  
European Space and Technology  
Center (ESTEC), Keplerlaan 1, P.O  
Box 299 2200 AG Noordwijk The  
Netherlands

### **Dr. Beatriz Soret**

Department of Electronic  
Systems, Aalborg University,  
Fredrik Bajers Vej 7, C1-1119220  
Aalborg Ø Denmark

Deadline for manuscript  
submissions:

**closed (10 March 2022)**

### **Message from the Guest Editors**

In recent years we witnessed a blossoming in research about random access techniques for satellite communications. Interestingly, some of the new ideas developed found practical applications in satellite networks and have been triggering attention in the terrestrial wireless community for massive access. This special issue of *Sensors* is aiming at collecting state-of-the-art research paper related to random access techniques and technologies for satellite communications.

- Capacity analysis and fundamental performance tradeoffs
- Efficient random access techniques for satellite networks
- Network architecture and protocol design for massive access via satellite solutions
- Technologies for satellite Internet of Things networks
- Low-power satellite telemetry devices
- Satellite constellations for IoT applications
- Privacy and security guarantees for massive IoT from space
- Random access in 3GPP Non-Terrestrial Networks and beyond
- Results from real-world deployments, experiments, prototypes and testbeds



[mdpi.com/si/52533](https://mdpi.com/si/52533)

**Special** Issue



*sensors*



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Vittorio M. N. Passaro**

Dipartimento di Ingegneria  
Elettrica e dell'Informazione  
(Department of Electrical and  
Information Engineering),  
Politecnico di Bari, Via Edoardo  
Orabona n. 4, 70125 Bari, Italy

## Message from the Editor-in-Chief

*Sensors* is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

## Author Benefits

**Open Access** : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

**High Visibility**: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

**Journal Rank**: JCR - Q2 (*Chemistry, Analytical*) / CiteScore - Q1 (Instrumentation)

## Contact Us

---

*Sensors* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/sensors](http://mdpi.com/journal/sensors)  
[sensors@mdpi.com](mailto:sensors@mdpi.com)  
[X@Sensors\\_MDPI](#)