

## Special Issue

# Radio Resource Management for IoT Networks in 5G Environments

### Message from the Guest Editor

Internet of Things (IoT) encompasses the interconnection of devices that may perform sensing, actuation, storage, computing and decision-making functionalities. An important feature that can enhance the capabilities of IoT is related to the introduction of mobile devices. Different Radio Access Network standards, such as LTE-M, LoRaWAN, can address different use case requirements. These heterogeneous networks may be parts of 5G architectures that are based on SDN/NFV in order to enable the development of solutions using virtualized and softwarized network functions. In this complex ecosystem, Radio Resource Management has an important role to ensure optimum network operation and the provision of the required resources for various vertical application domains, exploiting enhanced context awareness. Topics include but are not limited to:

- Admission control schemes;
- Resource scheduling algorithms;
- Radio network planning and capacity dimensioning for heterogeneous IoT networks;
- Integrated backhaul and fronthaul designs for massive IoT deployments;
- Intelligent IoT algorithms using enhanced context information;
- Mobile IoT QoS management considering 5G SDN/NFV architectures.

---

### Guest Editor

Dr. Nikos Dimitriou

Networks Laboratory, Institute of Informatics and Telecommunications, National Centre for Scientific Research "Demokritos", 15310 Athens, Greece

---

### Deadline for manuscript submissions

closed (30 November 2022)



## Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/si/87747](https://mdpi.com/si/87747)

*Sensors*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[sensors@mdpi.com](mailto:sensors@mdpi.com)

[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)





# Sensors

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.5  
CiteScore 8.2  
Indexed in PubMed



[mdpi.com/journal/  
sensors](https://mdpi.com/journal/sensors)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro  
Department of Electrical and Information Engineering, Politecnico di Bari, Via Orabona 4, 70126 Bari, Italy

---

### 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 (Instruments and Instrumentation) / CiteScore - Q1 (Instrumentation)