

# Special Issue

## Energy Efficient Networking

### Message from the Guest Editor

The main objective of this Special Issue is to make a point on this topic after about ten years of sparking research activity. Several questions remain: Which are the network aspects where the attention have to be focused on? What is the best tradeoff between technology and system design oriented solutions for energy saving? How do we drive evolution beyond 5G to achieve an energy-efficient mobile access? What could be the evolution of current network control and management network protocols? These and other fundamental questions are very stimulating and merit answers to drive research in the short-middle time. Requested contributions could concern but are not limited to the following topics: -Energy efficiency in backbone networks

- Energy saving in 5G and beyond mobile access
- Energy efficient routing and MAC protocols
- Energy efficient router and switch architectures
- Energy saving oriented network design techniques
- The role of virtualization techniques in energy saving
- Impact of new switching paradigms (e.g., SDN, segment routing)
- Modeling and performance issues of energy saving network protocols

---

### Guest Editor

Prof. Dr. Marco Listanti

Department of Engineering of Information, Electronics and Telecommunications, University of Rome "La Sapienza", 00184 Rome, Italy

---

### Deadline for manuscript submissions

closed (28 February 2018)



## Journal of Sensor and Actuator Networks

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.2  
CiteScore 9.4



[mdpi.com/si/11208](https://mdpi.com/si/11208)

*Journal of Sensor and Actuator  
Networks*

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

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

[jsan](https://jsan)





# Journal of Sensor and Actuator Networks

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.2  
CiteScore 9.4



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

[jsan](https://jsan.mdpi.com/)



## About the Journal

### Message from the Editor-in-Chief

I encourage you to contribute research and comprehensive review articles for publication in Journal of Sensors and Actuator Networks (JSAN), an international, open access journal which provides an advanced forum for research findings in areas of sensors and actuators. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sensors and actuators and fostering applications of sensor-based measurements and effective actuator incorporation.

---

### Editor-in-Chief

Prof. Dr. Lei Shu

1. College of Smart Agriculture (Artificial Intelligence), Nanjing Agricultural University, Nanjing 210031, China

2. School of Engineering, College of Science, University of Lincoln, Lincoln LN6 7TS, UK

---

### Author Benefits

#### High Visibility:

indexed within Scopus, ESCI (Web of Science), dblp, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Computer Science, Information Systems) /  
CiteScore - Q1 (Control and Optimization)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 21.6 days after submission; acceptance to publication is undertaken in 5.3 days (median values for papers published in this journal in the first half of 2025).