

# Special Issue

## Advanced Instrumentation for Power Converter Applications

### Message from the Guest Editors

Improvements in instrumentation can be submitted but not limited to in the following areas:

- Instrumentation supporting new control techniques, which includes, for example, data acquisition and signal processing at analog/digital side;
- Instrumentation to support diagnosis services on power electronics devices;
- Instrumentation to support reconfiguration of power converter units in order to minimize downtime in case of failure and maximize power generation;
- Sensing based on digital signal processing techniques;
- Alternative sensing techniques that can improve switching trajectory in most recent power devices, such as silicon carbide (SiC) Mosfet and gallium nitride (GaN) FET.

---

### Guest Editors

Dr. Eduardo M. G. Rodrigues

Dr. Edris Pouresmaeil

Dr. Radu Godina

---

### Deadline for manuscript submissions

closed (31 January 2021)



## Journal of Sensor and Actuator Networks

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.2  
CiteScore 9.4



[mdpi.com/si/29090](https://mdpi.com/si/29090)

*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](#)





# 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 23.6 days after submission; acceptance to publication is undertaken in 3.8 days (median values for papers published in this journal in the second half of 2025).