



Call for Papers

IEEE Open Journal of Instrumentation and Measurement (IEEE OJIM)

Special Section on Measurements in Power Systems in the Era of Energy Transition

Energy transition is leading to tremendous changes in monitoring, control, and protection schemes of electric power systems at generation, transmission, and distribution levels. Such changes need to be supported by adequate measurement solutions, characterized by new and unprecedented performance. This implies that innovative instruments, systems, and methods must be defined, developed, implemented, and characterized.

This Special Section aims at hosting high quality contributions to the advancement of the knowledge on these subjects, considering all aspects from the single device to the overall wide-area distributed system, from the specific measurement algorithm to the final application, always with a focus on the quality of the information made available for the correct management of modern power grids.

The topics for this Special Section include, but are not limited to, the following:

- Synchronized measurements and wide-area monitoring systems
- Big data analytics in power systems
- Power quality monitoring
- Power system state estimation
- Model estimation in power systems
- Measurements in DC power grids
- Non-Intrusive Load Monitoring (NILM)
- Voltage and current sensors

Each accepted paper for this Special Section will receive an Open Access fee waiver (i.e., accepted papers will not be charged Open Access fee).

Deadlines

Submission: June 30, 2024

First decision: July 22, 2024

Final decision: September 15, 2024

Publication Volume: 2024

For more info and submission instructions, please visit [OJIM's official website](#).

Guest Editor:

Carlo Muscas, University of Cagliari, ITALY (carlo.muscas@unica.it)