

# Special Issue

## Optical Sensing in Power Systems

### Message from the Guest Editor

As we transition to a sustainable future, the power system requires ever more granular and extensive measurement in order to enable greater integration of renewable generation and to drive up efficiency. At every level of power flow—generation, conversion, transmission and distribution—extensive measurements are required. Voltage and current measurements are needed for power system control, protection, and metering. AC, DC, and high-frequency dynamic measurements are required, with voltages reaching MV levels and currents tens or hundreds of kAs. Measurements of other physical parameters such as temperature, strain, vibration, humidity, chemical species, or partial discharge are also required for diagnostic and prognostic purposes of plant or for perimeter breach security alerts. Distributed measurements are also crucial for improved power grid visibility to offer wide-area monitoring, control, and protection. For more details, please visit [here](#).

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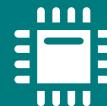
### Guest Editor

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### Deadline for manuscript submissions

25 January 2026



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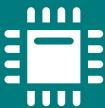


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### Message from the Editor-in-Chief

*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.

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### Editor-in-Chief

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