The 5th International Conference on Smart Grid Synchronized Measurements and Analytics

SGSMA 2026 – http://sgsma2026.cl

June 1-4, 2026
Santiago de Chile, Chile

USACH DEPARTAMENTO DE INGENIERÍA ELÉCTRICA

The broad electrification of the world economy, the continued deployment of renewables and the expansive means to reduce carbon emissions requires a reliable and resilient electric grid. Ensuring power system security and stability requires accurate, timely and verified synchronized measurements of time varying and noisy current and voltage signals, collected across vast electrical grids, numerous different electrical components and in the presence of volatile renewable energy sources. Synchronized measurements and their analysis support operational control and may enhance decisions in generation and grid investments. The infrastructure that enables, transmits, secures and stores synchronized measurements (incl. the cloud) becomes crucially important, too. *The International Conference on Smart Grid Synchronized Measurements and Analytics 2026 (SGSMA 2026) is the leading forum for disseminating the latest research and innovations on this multi-faceted topic*.

Examples of topics of interest – all on synchronized measurements and their systems/devices:

- Bad data detection and troubleshooting
- Metrics for performance evaluation
- Wide-area monitoring, control and protection of the electrical grid, microgrids and industrial plants
- Analytics and visualization of infrastructure
- Cyber-physical security
- Next generation control centers, IEC 61850 interface
- Optimal placement
- Theoretical and fundamental advances
- Accuracy of waveform and phasor calculation

- Signal processing for waveform components estimation
- Modeling, simulation and digital twins
- Time synchronization, clock sources, signal dissemination, instrumentation & uncertainty
- Certification, commissioning, field testing & calibration
- Sensors, communications & computing analytics
- Databases & integration with legacy systems & the cloud
- Educational needs and development
- Experiences & views from IEEE WiP & YPs, & CIGRE Women in Energy & Next Generation Network

Important Dates:

Abstract Submission Opens:	June 1st, 2025
Deadline for Abstract Submissions:	July 15th, 2025
Decisions on Abstracts and Full Paper Submission Opens:	Sep. 5th, 2025
Deadline for Full Paper Submissions:	Oct. 15th, 2025
Tutorial/Workshop/Panels Proposals:	Oct. 31, 2025
Decisions on Full Papers & Proposals, Registrations Open:	Feb. 15th, 2026
Students' Travel Grant Applications and PhD Dissertation Competition Submissions:	March 1st, 2026
Students' Travel Grant and PhD Dissertation Competition Decisions and Final Paper Submissions:	March 15th, 2026
Early Bird Registration Deadline:	May 15th, 2026

Previous technical sponsorship:

IEEE PES Power & Energy Society®

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IAS IEEE INDUSTRY APPLICATIONS SOCIETY — Linking Research to Practice

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