



02-04 NOVEMBER 2026 IN SOUSSE, TUNISIA

## CALL FOR PAPERS FOR SPECIAL SESSION PROPOSAL

### SPECIAL SESSION 5

## Communication Engineering and Information Technology for Smart grids

### Session description :

This session highlights the essential role of communication engineering and information technology as the foundation of the smart grid—a cyber-physical system in which the exchange of data is as vital as the delivery of electricity.

We explore the multi-layered communication infrastructure, from wide-area networks and 5G to edge computing and digital twins, that enables real-time monitoring, protection, and control across transmission and distribution networks.

A central theme is the convergence of IT with operational technology to harness the vast data streams generated by distributed energy resources, smart meters, and grid sensors, applying artificial intelligence to drive predictive analytics and system-wide optimization.

Cybersecurity remains a critical focus, encompassing resilience, privacy, and the secure implementation of transactive energy frameworks. By uniting the disciplines of power systems, communications, and computer science, the session demonstrates how robust, low-latency, and secure communication architectures underpin a reliable, sustainable, and intelligent energy future.

### Session chairs :

- Amer Zerek , Zawia Univ, LY
- Olga Boiprav, Belarusian State Univ, BY
- Fatima Laassiri, Cadi Ayyad Univ, MA
- Sana Ahmed Abdaljlil, Cadi Ayyad Univ, MA

### Topics of interest (not limited to) :

- Telecommunication Engineering
- Communication Network Analysis in Smart Grid
- Education and information technology
- Health care information systems and technologies
- Information privacy and digital security
- Mathematical modelling and control system
- Neural networks and fuzzy logic
- Intelligent/Adaptive Systems
- Artificial Intelligence
- Genetic algorithms and evolutionary computing
- Fault detection and isolation
- E- Learning

### Important Dates



### Sponsors



Contact : [sime.conf@gmail.com](mailto:sime.conf@gmail.com)

Submission Link  
<https://sime-conf.org/submission/>

Website : [www.sime-conf.org](http://www.sime-conf.org)