NCSGPA 2024

ESG2E ORAN

THE FIRST NATIONAL *Conference on* SMART GRID, POWER AND APPLICATIONS

ORAN,DECEMBER 4TH, 2024

SMART GRID

Infrastructure, control and optimization



RENEWABLE ENERGY

INTEGRATION



EMERGING TECHNOLOGIES

INNOVATION



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Director of ESGEEO

CONFERENCE PRESIDENT

Dr. Amir MERAHI

Director of Smart Grid Development Laboratory

PLUS D'INFO:

www.ncsgpa2024.esgee-oran.dz

IMPORTANT DEADLINES:

~~PAPERS SUBMISSION: AUGUST 1 ST , 2024~~

PAPERS SUBMISSION: SEPTEMBER 15 TH , 2024

NOTIFICATION : OCTOBER 15, 2024

FULL PAPERS SUBMISSION &

PARTICIPATION CONFIRMATION: OCTOBER 30TH, 2024

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Objectives

The First National Conference on Smart Grid aims to bring together experts, professionals, researchers, and policymakers to discuss the latest advancements, challenges, and opportunities in the field of smart grid technology. With the increasing importance of smart grids in optimizing energy distribution, reducing carbon footprint, and enhancing grid reliability, this conference serves as a platform for sharing knowledge, fostering collaboration, and exploring innovative solutions.

We believe that your expertise and insights would greatly enrich the discussions at the conference. Your participation will contribute significantly to the collective effort of advancing smart grid technology and its applications

Topics

Smart Grid Infrastructure

- Advanced metering infrastructure (AMI)
- Distribution automation and control
- Grid modernization strategies
- Integration of distributed energy resources (DERs)
- Microgrids and islanding operations
- Grid resilience and reliability enhancements

Renewable Energy Integration:

- Integration of solar, wind, and other renewables into the grid
- Power forecasting and scheduling for renewable energy sources
- Grid-friendly renewable energy technologies
- Energy storage solutions for renewable integration
- Virtual power plants and demand response programs

Grid Control and Optimization:

- Grid stability and power quality management
- Demand-side management and load control strategies
- Frequency regulation and voltage control techniques
- Grid congestion management and optimization
- Optimization algorithms for grid operation and control

Emerging Technologies and Innovations

- Blockchain applications in energy trading and grid management
- Artificial intelligence and machine learning for grid optimization
- Internet of Things (IoT) devices and sensors in smart grid applications
- Quantum computing for grid optimization and security
- Advanced sensor technologies for grid monitoring and control

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