



# 8<sup>TH</sup> International Conference on Control, Automation, and Diagnosis



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May 15-17, 2024  
Paris, France

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## CALL FOR PAPERS SPECIAL SESSION ON

## Smart Grid and Sustainable Energy System

for ICCAD'24

May 15-17, 2024, Paris-France

### Session Chairs:

*Dr. Mohamed Barara*

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*Laboratoire des Technologies Innovantes (LTI), Université de Picardie Jules Verne)*

Mohamed Barara received his PhD in Electrical Engineering from the Mohammadia School of Engineering, Rabat, Morocco And master's degree of automated system from university of science Fez. He went to the University of Pitesti, Romania under the PhD mobility program. He joined the Khalifa University as a visiting research assistant at the power electronics research lab in Abu Dhabi, UAE. He worked in a postdoctoral position at the University of Lyon, Ampere Lab, France. He has also worked at the UFR Sciences et Technologies Université d'Évry-Vald'Essonne, Paris Saclay, and with the Université de Caen in Normandie, France. He worked as responsible of renewable energy and Smart grids at the School of Engineering, ESME SUDRIA, Paris and Associate researcher with University of Picardie Jules Verne, Laboratory LTI. His current area of research is Smart grids. His other research interests include renewable energy systems and micro-grid and has already published many papers in these areas and he organizes numerous sessions on renewable energy and smart grid in international conferences.

### Session description:

Smart Grid aims to guarantee reliability and stability of electric power system, balance energy supply & demand and enable diverse integration of multi-energy systems. The key issues on increase the penetration of renewables in the energy grid infrastructures to have integration of the renewable energy resources to achieve sustainable energy systems and communities. This special issue is dedicated to developments at the frontiers of smart grid community, ranging from the academic to industrial domain including relevant technologies across all scenarios of smart grid.

Topics of interest include, but are not limited to:

- Integration of renewable energy sources to smart grid
- Production of energy using smart grid technologies

- Hybrid smart grid energy system technologies
- Novel energy conversion studies in smart grid systems
- Control techniques for smart grid energy systems
- Computational methods and artificial intelligence studies in smart grids
- Self-healing
- Distributed Power Energy Systems and Sources, Renewable Energy, Conventional Power Sources
- New Trends and Technologies for Smart Grid
- Microgrids for transportation electrification
- Energy Transformation from Renewable Energy System to Smart Grid
- HVDC for Smart Grid
- Power Devices and Driving Circuits for Smart Grid
- Decision Support Systems for Smart Grid
- Smart Grid for Electrical Vehicles and Components
- Energy Management Systems, etc.
- Future Challenges and Directions for Smart Grids

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## **SUBMISSION**

Papers must be submitted electronically for peer review by: **December 15, 2023**

<https://www.iccad-conf.com/submission/>

All papers must be written in English and should describe original work. The length of the paper is limited to a maximum of 6 pages (in the standard IEEE conference double column format).