



Ministry of Higher Education and Scientific Research
University of Mouloud Mammeri, Tizi-Ouzou
Faculty of Electrical Engineering and Computer Science



International Conference on Artificial Intelligence,
Embedded Systems, and Renewable Energy

PROGRAM
15-17 December 2023

Day 1 - Opening

Conference Chair: **ZIRMI**

Monday, December 15, 2025 at 8:30 – 9:00 (GMT+1)

Day 1 – Keynote 1

Speaker: **PROF. TEDJANI MESBAHI**

**Smart Battery and Hybrid Energy Storage Systems for Electric Vehicles
and Drones: Advanced Energy Management Strategies and Applications**

Monday, December 15, 2025 at 9:00 – 9:45 (GMT+1)

Day 1 – Coffee Break

Monday, December 15, 2025 at 9:45 – 10:15 (GMT+1)

Day 1 – Keynote 2

Speaker: **DR. HACIB BEN AISSA**

**Energy Transition and Industry Decarbonisation: Emerging Pathways and
Technologies**

Monday, December 15, 2025 at 10:15 – 11:00 (GMT+1)



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International Conference on Artificial Intelligence,
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PROGRAM
15-17 December 2023

Day 1 - Oral Session 1 - Track 1

Session Chair:

Session Title: **Renewable Energy Innovation, Control, and Optimization**

Monday, December 15, 2025 at 11:00 – 12:00 (GMT+1)

MM_Room01

- 67 **Sustainable Power Generation via Olive Solid Waste Gasification in the Tizi Ouzou Region.**
- 71 **Analysis of Long-Term Performance Degradation in Photovoltaic Modules**
- 77 **Sensorless Voltage-Oriented Control of Modular Multilevel Converters for Wind Power Systems**
- 130 **Improved Funnel Control Strategy with PI Regulation for Wind Energy Systems for Maximum Power Point Tracking**

Day 1 - Oral Session 1 - Track 5

Session Chair:

Session Title: **Advanced Control, Optimization, and Sustainable Technologies for Renewable Energy Systems**

Monday, December 15, 2025 at 11:00 – 12:00 (GMT+1)

MM_Room02

- 33 **Solar Inverter Performance Prediction Using Double Exponential Curve Fitting**
- 44 **Robust Generalized Predictive Speed with Direct Torque Control for Multiphase Wind Generators under Parametric Uncertainty**
- 58 **Energy-Efficient and Sustainable Approaches to AS/RS Design and Control: A Comprehensive Review**
- 97 **Equivalent Consumption Minimization Strategy for Energy Management in Unmanned Aerial Vehicle**



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PROGRAM
15-17 December 2023

Day 1 - Oral Session 1 - Track 6

Session Chair:

Session Title: **AI-Driven Automation and Robotics for Precision Agriculture**

Monday, December 15, 2025 at 11:00 – 12:00 (GMT+1)
MM_Room03

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|-----|-----------------------------------------------------------------------------------------------------|
| 92 | Using a UAV Crop Monitoring System for Early Tomato Disease Detection and Decision Support |
| 105 | Sensor-Driven Real-Time Obstacle Detection for Agricultural Drone Spraying Systems |
| 112 | Fruit Anomaly Detection and Manipulation Using a Vision-Guided Autonomous Aerial Manipulator |

Day 1 – Lunch Break

Monday, December 15, 2025 at 12:00 – 13:00 (GMT+1)

Day 1 – Keynote 3

Speaker: **MR. DANIEL COOK**

Energy Management and Storage with Bio-Based Phase Change Materials

Monday, December 15, 2025 at 13:00 – 13:45 (GMT+1)



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PROGRAM
15-17 December 2023

Day 1 - Oral Session 2 - Track 1

Session Chair:

Session Title: **Innovations in Renewable Energy Conversion, Optimization, and Integration**

Monday, December 15, 2025 at 13:45 – 14:45 (GMT+1)
MM_Room01

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| 27 | Performance and Emission Analysis of LPG-Hydrogen Dual Fuel Engines |
| 55 | Comparative Study of the Different Structures of Multi-Level Inverters for the Connection of PV Systems to the Power Grid |
| 83 | Hippopotamus Optimization Algorithm-Based Robust Tilt-FOID Control Design for Linear Time-Invariant Systems in Renewable Energy Applications |
| 107 | Coupled Magneto-Mechanical Modeling of a Marine Wave Energy Recovery System |

Day 1 - Oral Session 2 - Track 5

Session Chair:

Session Title: **Advanced Forecasting, Control, and Energy Harvesting**

Monday, December 15, 2025 at 13:45 – 14:45 (GMT+1)
MM_Room02

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|-----|----------------------------------------------------------------------------------------------------------------------------|
| 138 | Design and Development of a Piezoelectric Shoe Using Lead-Free Composite Materials for Mechanical Energy Harvesting |
| 140 | Energy Management of a Smart District Using the Neural Predictions and Predictive Control Model (MPC) |
| 173 | Enhanced Battery Health Forecasting with Dynamic Thresholds Using Multi Input LSTM Networks |
| 185 | Predictive Control of DFIG in a Hybrid PV/DFIG/Batt System Supplying a Water Pumping System |



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PROGRAM
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Day 1 - Oral Session 2 - Track 6

Session Chair:

Session Title: **Intelligent Sensing and Prediction for Agricultural Systems**

Monday, December 15, 2025 at 13:45 – 14:45 (GMT+1)
MM_Room03

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|-----|---------------------------------------------------------------------------------------------------------|
| 134 | Prediction of a Tunnel Greenhouse Relative Humidity Using Artificial Neural Network |
| 161 | Review of Smart Systems in Aquaculture and Aquaponics |
| 178 | Comparative Analysis of YOLOv8, YOLOv11, and Faster R-CNN for Multi-Crop Plant Disease Detection |



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PROGRAM
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Day 1 - Poster Session

Session Chair:

Session Title: **Smart Energy, Machine Learning, and Power Materials Reliability**

Monday, December 15, 2025 at 14:45 – 15:30 (GMT+1)

MM_Hall

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------|
| 72 | Smart Energy Control in PV-Battery Systems Using Three-Level Boost Converters with DC-Link Voltage Regulation via Genetic Algorithm |
| 85 | Bio-Inspired Method for Optimal Energy Management and Efficiency Improvement of Microgrids |
| 131 | Thermal Aging Effects on the Electrical, Mechanical and Physicochemical Properties of LDPE Power Cables Insulation |
| 142 | Comparative Numerical Study of Multilayer Walls with and without Phase Change Materials for Enhanced Thermal Performance |
| 146 | Design and Implementation of a Modular Cold Storage System |
| 151 | Performance Assessment of ANN and MLR Models for Predicting NF/RO Desalination System |
| 163 | Heart Beat IoT: Real-Time Cardiac Monitoring |
| 177 | Effect of Critical Current Density Dependence on the Internal Magnetic Field Penetration in an HTC Superconducting Bulk |
| 183 | Machine Learning for Predictive Maintenance of Electrical Machines: A Review |
| 184 | Hydrothermal Degradation Impacts on the Properties Of PVC Cables Insulation |
| 191 | Ultraviolet Aging Effects on the Dielectric Properties of PVC/Al₂O₃ Nanocomposites Cables Insulation |



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PROGRAM
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Day 1 - Online Session - Track 1

Session Chair:

Session Title: **Advanced Renewable Energy Systems: Design, Monitoring, and Control**

Monday, December 15, 2025 at 15:30 – 17:30 (GMT+1)
MM_Room01

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|-----|------------------------------------------------------------------------------------------------------------------------------|
| 136 | Study and Development of Methodology for Dimensioning Photovoltaic Systems (PVS) |
| 153 | Daily Energy Production Patterns in Medium-Scale Hydroelectric Operations: a Longitudinal Descriptive Study |
| 156 | Design and Implementation of a Low-Cost Automatic Weather Station Based on the Internet of Things |
| 158 | From Grid Following to Grid Forming in PV Grid Tied Single Phase Inverter |
| 167 | Overshoot-Free Speed Control in PMSG Wind Turbines Using a Smooth Sliding Mode Controller |
| 186 | Seasonal Variability and Performance Optimization of Wind Power Generation: A Comprehensive Study of ENGIE Operations |



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PROGRAM
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Day 1 - Online Session - Track 5

Session Chair:

Session Title: **Metaheuristic Optimization and Control Strategies for Hybrid Systems**

Monday, December 15, 2025 at 15:30 – 17:30 (GMT+1)
MM_Room02

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| 28 | PSO Algorithm for Optimal of Fuzzy Logic Controller for A DC-DC Buck Converter |
| 64 | Two-Level Hierarchical Control of a PV-Battery Hybrid Energy System Using Differential Flatness-Based Strategy and MShOA-Tuned FOPID Controller |
| 73 | Comparative Optimal Dispatch Control Strategies for a Hybrid Renewable Energy System |
| 115 | Energy Management of a PEMFC/Battery Electric Vehicle Using a State Machine Strategy |
| 149 | Optimization of Energy Management in a PV–Wind–Battery Microgrid Using PSO in MATLAB |
| 154 | Statistical Assessment of Commercial Electric Service Quality: A Case Study of ENEL Distribution Company in Peru |
| 162 | Optimal Distribution Network Reconfiguration for Minimizing Energy Losses and Enhancing Reliability Using Metaheuristics |



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PROGRAM
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Day 1 - Online Session - Track 6

Session Chair:

Session Title: **Machine Intelligence and Sensing Technologies for Precision Agriculture and Water Management**

Monday, December 15, 2025 at 15:30 – 17:30 (GMT+1)
MM_Room03

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|-----|--------------------------------------------------------------------------------------------------------------------------------|
| 30 | Hybrid WCA-HS Based Control for Autonomous Quadrotor Navigation in Precision Agriculture |
| 40 | Advancing Infiltration Modeling with Deep Learning: A Superior Alternative to Empirical Approaches in the Mitidja Plain |
| 91 | Advancing Agricultural Robotics: AI Control Strategies for Delta Robots |
| 98 | Early-Season Water Use Patterns in Wheat and Barley under Semi-Arid Conditions: A Lysimetric Approach |
| 147 | IoT-Based Climatic Environment Monitoring System Design for a Cattle Breeding Buildings |
| 157 | Integrated Geophysical Approach for Groundwater Prospecting |



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PROGRAM
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Day 2 – Keynote 1

Speaker: **PROF. HAMID LAGA**

Efficient Deep Learning for 3D/4D Shape Analysis: From Medical Applications to Generative AI

Tuesday, December 16, 2025 at 9:00 – 9:45 (GMT+1)

Day 2 – Coffee Break

Tuesday, December 16, 2025 at 9:45 – 10:15 (GMT+1)

Day 2 – Keynote 2

Speaker: **PROF. FREDE BLAABJERG**

Challenges of Renewable Energy Integration in Clean Energy Systems

Tuesday, December 16, 2025 at 10:15 – 11:00 (GMT+1)



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PROGRAM
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Day 2 - Oral Session 1 - Track 1

Session Chair:

Session Title: **Advanced Photovoltaic Materials and Solar Forecasting**

Tuesday, December 16, 2025 at 11:00 – 12:00 (GMT+1)

MM_Room01

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22 | Comparative Analysis of Pure ZnO, Ag-Mn Codoped ZnO, and Mn:ZnO/Ag/Mn:ZnO Multilayer Transparent Conductive Oxides for Photovoltaic Applications |
| 41 | Characterization of EVA/phase change material blend embedded with zinc oxide (ZnO) nanomaterial as nanocomposite for photovoltaic module encapsulation process |
| 70 | Surpassing 16% Efficiency in Cd-Free CZTS Solar Cells via Si Back-Contact Engineering and IR Harvesting |
| 171 | A Hybrid Electrical and Environmental LSTM Approach for Short-Term Solar Power Forecasting in Algeria |

Day 2 - Oral Session 1 - Track 2

Session Chair:

Session Title: **Edge AI and Intelligent Monitoring for Energy Systems**

Tuesday, December 16, 2025 at 11:00 – 12:00 (GMT+1)

MM_Room02

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26 | Recent Advances in the Application of TinyML and Edge Devices in Solar Photovoltaic Systems: Bridging the Gap Between Laboratory Research and Industry |
| 49 | An Embedded AI Model for Defect Detection in Photovoltaic Modules Using a Jetson Nano-Powered Unmanned Aerial Vehicle |
| 125 | Unbalance fault detection in an IoT-Connected Motor Network Using Artificial Neural Networks |



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PROGRAM
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Day 2 - Oral Session 1 - Track 3&4

Session Chair:

Session Title: **Data-Driven Modeling and Optimization in Power Systems**

Tuesday, December 16, 2025 at 11:00 – 12:00 (GMT+1)
MM_Room03

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 36 | Advanced Polynomial and Gaussian Regression Frameworks for Predictive Modeling of Tangential Discharge Phenomena in High-Voltage Insulation Systems |
| 80 | Data-Driven Based Sparse Identification of Nonlinear Dynamics for Stability Analysis of Mixed Grid-Following and Grid-Forming Inverters |
| 121 | Formal Concept Analysis for Knowledge Extraction and Optimal Configuration Selection in Photovoltaic Installations |
| 170 | Study of a Hybrid PV/Fuel Cell System Dedicated to an Electric Vehicle Charging Station |

Day 2 – Lunch Break

Tuesday, December 16, 2025 at 12:00 – 13:00 (GMT+1)

Day 2 – Keynote 3

Speaker: **DR. KAMAL HADIDI**

Innovating Chemical Manufacturing: Low-Temperature Solutions for Energy Efficiency and Emissions Reduction

Tuesday, December 16, 2025 at 13:00 – 13:45 (GMT+1)



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PROGRAM
15-17 December 2023

Day 2 - Oral Session 2 - Track 1

Session Chair:

Session Title: **Intelligent Control and Fault Diagnosis in Photovoltaic Systems**

Tuesday, December 16, 2025 at 13:45 – 14:45 (GMT+1)

MM_Room01

- 59 **A Novel Linguistic Hedge-Based Fuzzy Logic Controller for Enhanced MPPT in PV Systems**
- 61 **Tuning of a Neutrosophic Fuzzy Controller for DC Motor Using the Novel Qudwa Metaheuristic**
- 87 **Experimental Study of Solar Water Pump Control by Arduino**
- 93 **Open-Circuit Fault Diagnosis of a Three-Level Boost Converter for Photovoltaic Applications**

Day 2 - Oral Session 2 - Track 2

Session Chair:

Session Title: **Control and Security in Modern Renewable Energy Systems**

Tuesday, December 16, 2025 at 13:45 – 14:45 (GMT+1)

MM_Room02

- 53 **Security of Grid-Connected Photovoltaic Plants A Mini-Review and Future Directions**
- 141 **Direct Power Control Technique for Wind Power Generation System based on a Double Stator Induction Generator (DSIG)**
- 190 **Development and Design of an Intelligent Energy Router**



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Day 2 - Oral Session 2 - Track 3&4

Session Chair:

Session Title: **Intelligent Control and Optimization in Renewable Energy Systems**

Tuesday, December 16, 2025 at 13:45 – 14:45 (GMT+1)

MM_Room03

- 123 **Improving the Performance of a Wind Turbine PID Controller Using GWO Optimization and Fuzzy Logic**
- 128 **Stabilizing Photovoltaic Output Using a Controlled Ćuk Converter Topology**
- 188 **Anomaly Detection in Datacenter Energy Consumption Using an Autoencoder**
- 194 **Optimizing Batteries Charging Time Inside an Autonomous Photovoltaic System Installed on a House's Roof**



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Day 2 - Poster Session

Session Chair:

Session Title: **Smart Sensing, and Intelligent Control in Energy and IoT Systems**

Tuesday, December 16, 2025 at 14:45 – 15:30 (GMT+1)
MM_Hall

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 38 | Determination of the Minimum Capacitance for Self-Excitation of a SEIG, Taking Into Account the Speed Ramp Up |
| 57 | Comparative Analysis of MPPT Algorithms for Photovoltaic Systems Under Partial Shading: A MATLAB/Simscape-Based Study |
| 90 | Transformer Fault Diagnosis Using HHO-Enhanced XGBoost and Liquid Dielectric Signal Analysis |
| 110 | Graph-Based Semi-Supervised Learning for Fault Clustering in Grid-connected PV Systems |
| 114 | Detection of Silicone Oil Concentration Using a Two-Dimensional Photonic Crystal Sensor |
| 120 | AI-Enabled Wearable IoT Device for Facial Recognition in Student Transportation Systems |
| 135 | Dynamic Performance Evaluation of a Dual-Star Induction Machine Fed by an Indirect Matrix Converter |
| 159 | A Low-Cost and Eco-Friendly Humidity Sensor Based on Keratin Thin Film |
| 172 | Wearable Low-Energy RFID-Integrated Vibration Tag for Silent, Long-Term Sleep Apnea Monitoring and Posture Sensing |
| 175 | Low Power Energy and Real-Time Localization of Prisoners Inside Correctional Facilities Using Inertial Sensors and Particle Filtering: A Dead Reckoning Approach |



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PROGRAM
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Day 2 - Online Session - Track 1

Session Chair:

Session Title: **Innovations and Optimization in Wind, Solar, and Hybrid Renewable Systems**

Tuesday, December 16, 2025 at 15:30 – 17:30 (GMT+1)
MM_Room01

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|-----|------------------------------------------------------------------------------------------------------------------------------------------------|
| 68 | A Heuristic Optimization Approach for Wind Turbine Dimensions to Enhance Energy Capture and Reduce Costs |
| 75 | Advancements in Solar Energy Systems: Innovations in Photovoltaic (PV) and Floating PV Technologies for Decentralized Energy Production |
| 103 | Current Sensor Fault Diagnosis of Wind Power System Based on DFIG |
| 106 | Cold plasma-Based Methane Dry Reforming for Hydrogen Production |
| 122 | Recent Advancements in Energy Management for Hybrid Renewable Energy Systems |
| 152 | Renewable Energy Deployment Efficiency: Analyzing Algeria's Achievement Gap and Optimization Strategies |



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Day 2 - Online Session - Track 2

Session Chair:

Session Title: **Advanced Control and Modeling for Wind and PV Energy Systems**

Tuesday, December 16, 2025 at 15:30 – 17:30 (GMT+1)

MM_Room02

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 43 | Real-Time Sensorless Control for PMSG Wind Generators Using Step-by-Step Sliding Mode Observer on STM32 |
| 52 | Two Step Ahead Finite Set Predictive Torque Control Using Improved Sliding Mode Control for Three Phase Induction Motor |
| 78 | A Prototype Design of Smart DC Power Device for Solar System Application |
| 117 | Co-Simulation and Modeling of WT-AFPMSG Based on Ansys Software and MATLAB/Simulink for Wind Energy Application |
| 118 | Enhanced Fault-Tolerant Harmonic Compensation in Grid-Connected PV Systems: A Comparative Study of Analog Filters for Cascaded Multilevel Inverter Control |
| 119 | Enhanced Direct Current Control in Grid-Following Inverters Using Open-Loop Synchronization and PR Regulator for Renewable Energy Integration |
| 129 | A Space Vector Modulation Scheme for Five-Phase to Three-Phase Indirect Matrix Converter for a Wind Power Application |



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Day 2 - Online Session - Track 3&4

Session Chair:

Session Title: **Advanced AI, Forecasting, and Control Strategies in Modern Energy Systems**

Tuesday, December 16, 2025 at 15:30 – 17:30 (GMT+1)
MM_Room03

- | | |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------|
| 31 | Fault Diagnosis of Induction Motors Using Convolutional Neural Networks |
| 101 | Autonomous Photovoltaic/Thermal Solar Solution for Resilient Isolated Habitats |
| 109 | Intelligent Hysteresis Current Control Based on Support Vector Machine for SAPF Integrated PV System Under Nonstationary Harmonics |
| 145 | Forecasting Electrical Outages in Adrar, Algeria: Towards a Smart Energy Management System |
| 155 | A Multidisciplinary Systems Engineering Approach to Hybrid Energy Systems Development |
| 168 | A LADRC-Based Robust Speed Controller for PMSMs in Electric Vehicles With External Disturbance Rejection |
| 182 | Emerging AI Methodologies in the Renewable Energy Ecosystem: Successes, Challenges, and Future Research Directions (v2) |