



Ministry of Higher Education and Scientific Research
University 8 May 1945 Guelma
Faculty of Sciences and Technology
Electrical Engineering Laboratory Guelma



N°. 15/ICEEA'25/2025 - The International Conference on Electrical Engineering and its Applications

16 - 17 November 2025, Guelma, Algeria

CERTIFICATE OF ATTENDANCE

This is to certify that the paper:

Experimental Study of Discharge Currents on the Surface of Polyvinyl Chloride PVC

(Paper ID: 31)

Authored by **Larba Mohammed, Belhiteche Elhadi, Bouchahed Adel, Hamitouche Kamel, Redouane Abderrahmane and Benbouya Basma**, was presented at the ICEEA'25 conference.

Conference General Chair
Prof. Lemzaden Ali





The International Conference on Electrical Engineering and its Applications



November 16 - 17, 2025 - Guelma, Algeria

ICEEA'25 Program

Day 01: Sunday, November 16, 2025

08:00 – 08:30	Registration
08:30 – 09:00	Opening Ceremony
09:00 – 10:30	Keynote Speakers
	<p>Keynote 1: Tidal Stream Power on the Rise: Grid Integration and Storage Solutions for Marine Renewable Energy. Prof. Mohamed Benbouzid University of Brest, Institut de Recherche Dupuy de Lôme, Brest, France.</p> <p>Keynote 2: Renewable Energy Trends Opportunities and Environmental Footprint Challenges. Prof. Hocine Labar Badji Mokhtar-Annaba University, Algeria.</p>
10:30 – 11:00	Coffee Break
11:00 – 13:00	Parallel sessions
	<p>Thematic Session A: Applications of Artificial Intelligence and Machine Learning. (Conference room) Chairs: Pr. Moussaoui Abdelkrim and Pr. Nemissi Mohamed</p> <p>Merdaci Anfel, "Development of an Intelligent Warning System for Forest Fire Prediction and Prevention", University of Khenchela.</p> <p>Benhamza Karima, "An Efficient Intrusion Detection System for Enhancing Security in IoMT Environments", University of Guelma.</p> <p>Chaieb Houcine Ayoub, "Trajectory Tracking for Multi-UAV Control of Cable-Suspended Payload", EMP Algiers.</p> <p>Thematic Session B: Power Systems and Smart Grids. (Room 1) Chairs: Pr. Labar Hocine and Pr. Lemzadmi Ahcene</p>

	<p>Bezzar Nour El Houda, "Household Electricity Consumption Forecasting Using XGBoost Time Series Models", University of Tebessa.</p> <p>Gouaidia Said, "Optimal series capacitor compensation for increase transmission line loadability", University of Guelma.</p> <p>Thematic Session C: Renewable Energy, Storage and Sustainable Technologies. (Room 2) Chairs: Pr. Bahi Tahar and Pr. Dib Djalel</p> <p>Amiri Ahmed Faris, "Short-Term Solar Irradiance Forecasting Using LSTM Networks: A Case Study with Multi-Year Data", University of M'sila.</p> <p>Bensmara Ahlem, "Grid Connected DFIG-Based Wind System Using Vector Control Technique", University of Jijel.</p>
13:00 – 14:00	Lunch Break
14:00 - 17:00	Parallel sessions
	<p>Thematic Session E: High Voltage Engineering and Insulation. (Conference room) Chairs: Pr. Bayadi Abdelhafid and Pr. Nouri Hamou</p> <p>Guerroui Assia, "Modeling and Calculation of Breakdown voltage in SF6-N2 Using an Artificial Neural Network", University of Guelma.</p> <p>Moussaoui Aida, "Discharge Characteristics of Corona Charged Compact Granular Layers", University of Guelma.</p> <p>Bouchelkha Abdelhafid, "Sizing a Corona Discharge System in a Coaxial Wire-Cylinder Configuration", University of Guelma.</p> <p>Alti Nadjim, "Dynamic Modeling of Flashover Phenomena on Polluted Insulator Surfaces", University of Sétif. (Online)</p> <p>Thematic Session B: Power Systems and Smart Grids. (Room 1) Chairs: Pr. Labar Hocine and Pr. Lemzadmi Ahcene</p> <p>Dine Mohamed, "Accurate Fault Location Algorithm for TCSC Compensated Transmission Line Connected to Wind Farms", University of Medea. (Online)</p> <p>Ouail Mohamed, "Optimal Energy Management of Distributed sources-based on PV and Energy Storage System (ESS)", University of Chlef. (Online)</p> <p>Thematic Session C: Renewable Energy, Storage and Sustainable Technologies. (Room 2) Chairs: Pr. Bahi Tahar and Pr. Dib Djalel</p> <p>Lakhdara Amira, "Model Predictive Energy Management and Control Strategy for a Solar-Hydrogen Hybrid Smart Microgrid", University of Annaba.</p> <p>Nabti Zineb, "Controlled Electrodeposition of MnO₂ for High-Performance Zn-MnO₂ Rechargeable Batteries", University of Guelma.</p> <p>Khelfa Omar, "Technical and Economic Comparison between Photovoltaic Pumping and Medium Voltage Grid Supply in Semi-Arid Areas", University of Djelfa. (Online)</p>

	Tamer Emre, "Market-Integrated Approaches for Energy Affordability: Türkiye's Hybrid Strategy under the Renewable Transition", Akenerji Electricity Production, Istanbul, Turkey. (Online)
Day 02: Monday, November 17, 2025	
08:00 – 10:45	Parallel sessions
	<p>Thematic Session C: Renewable Energy, Storage and Sustainable Technologies. (Conference room) Chairs: Pr. Bahi Tahar and Pr. Dib Djalel</p> <p>Azizi Amina, "Study on the Detection of Faults Related to Photovoltaic Installations", University of Annaba.</p> <p>Douakha Oussama, "Intelligent Energy Management of Electric Vehicles through Hybrid Battery-Supercapacitor Architecture", University of Guelma.</p> <p>Bourrich Youcef, "Impact of Experimental Conditions on SVM Classification of Photovoltaic Defects from I-V Curves", University of Guelma.</p> <p>Zerzouri Nora, "Modeling and Simulation of a Grid-Connected Photovoltaic System Using a Single-Stage Converter", University of Annaba. (Online)</p> <p>Thematic Session D: Signal Processing and Communications. (Room 1) Chairs: Pr. Babouri Abedesselam and Dr. Ghadjati Mohamed</p> <p>Elhachi Hana, "Performance Analysis of Unreliable Transport Protocols for Low-latency apps in VANET", University of Guelma.</p> <p>Bouhous Adil, "A robust encryption watermarking algorithm for speech messages", CRSTDLA, Algiers. (Online)</p> <p>Elhachi Hana, "Is QUIC a Viable Alternative to TCP for Video Streaming Applications in Vehicular Networks ? ", University of Guelma.</p> <p>Yahi Nour el houda, "Antenna Diversity and Relay Antenna Selection in Cooperative TH-UWB Systems Using Equalization Techniques", University of Sidi Bel Abbes. (Online)</p> <p>Thematic Session G: Electrical Machines and Drives. (Room 2) Chairs: Pr. Allag Hicham and Pr. Mendaci Sofiane</p> <p>Bachir Samia, "Influence of Soft Magnetic Material Properties on the Electromagnetic Characteristics of a Linear Induction Motor", University of Annaba.</p> <p>Hassina Ziou, "Analysis of the Behavior of a Piezoelectric Beam Actuator Using the Finite Element Method", CNERIB, Algiers. (Online)</p> <p>Dafri Mourad, "Extended Jiles Atherton Model for Frequency Analysis of Magnetic Hysteresis", University of Annaba. (Online)</p>
10:45 – 11:00	Coffee Break
11:00 – 13:30	Parallel sessions

	<p align="center">Thematic Session G: <i>Electrical Machines and Drives.</i> (Room 2) Chairs: Pr. Allag Hicham and Pr. Mendaci Sofiane</p>
	Nehal Ouassila, "Sliding-Mode Assisted Direct Torque Control for Reliable Wind Turbine Operation", University of Tebessa. (Online)
	Benamimour Tariq, "Finite element modeling of a hybrid Switched Reluctance Machine (Permanent Magnet SRM)", University of Annaba. (Online)
	Hamdane Housseem, "Vibration-Based Analysis for Fault Diagnosis of Unbalance and Misalignment Defects in Induction Machines", University of Annaba. (Online)
	Khadar Saad, "Improved Sensorless Method Based on Luenberger Observer of a 5-phase Permanent Magnet Synchronous Motor", University of Djelfa. (Online)
	<p align="center">Thematic Session E: <i>High Voltage Engineering and Insulation.</i> (Room 1) Chairs: Pr. Bayadi Abdelhafid and Pr. Nouri Hamou</p>
	Mouhoub Sarra, "Prediction of the triboelectric charge of moving particles inside a metallic canalization", University of Guelma.
	Bechkoura Hana, "Modified Configuration of the Cylinder-Plate Electrostatic Separator for the Recovery of PVC and Aluminum Particles From Waste Electric Wires", University of Guelma.
	Larba Mohammed, "Experimental Study of Discharge Currents on the Surface of Polyvinyl Chloride PVC", University of Bejaia
	Ait Yahia Abdellah Walid, "Experimental Analysis of the Force of Attraction Exerted on Metal Particles Using an Electrostatic Actuator", University of Sidi-Bel-Abbes. (Online)
	<p align="center">Thematic Session F: <i>Power Electronics and Control Systems.</i> (Conference room) Chairs: Pr. Omeiri Amar and Pr. Ladjimi Abdelaziz</p>
	Malki abdallah, "Control of a Single-Phase Unified Power Conditioner for Power Quality Enhancement: Experimental Validation", University of bechar.
	Bahita Mohamed, "Process Control by Modified State Feedback Based on Linearization Around an Operating Point", University of Constantine.
	Khadar Saad, "Improved Predictive Control for Permanent Magnet Synchronous Motors Using Backstepping Control", University of Djelfa. (Online)
	Benhemine Asma, "Performances of Sliding Mode Control of a DFIG Wind System based Indirect Matrix Converter", University of Bechar. (Online)
	Attallah Faris, "Application of the GPBiCG(m, ℓ) Iterative Solver to Large-Scale Power System Analysis", University of Bab Ezzouar. (Online)
13:30	Closing and Lunch