



# *Certificate of Participation*

This is to certify that:

*Salim Djeriou*

Participated in the "*The 2<sup>nd</sup> International Conference of Advanced Technology in Electronic and Electrical Engineering (ICATEEE2025)*" held from December 10-11, 2025, at University of M'sila, Algeria with a presentation entitled:

*Comprehensive Design and Analysis of Overcurrent Relay Protection and Coordination for a 220 MW Grid-Connected Power Plant*

**Co-authors:** Assia Bounif, Abderrahim Zemmit, Ismail Ghadbane, Riyadh Rouabhi, Mourad Naidji.



December 10-11, 2025, at University of M'sila, Algeria  
<https://media.univ-msila.dz/ICATEEE25/>



  
Prof: Ismail GHADBANE  
General Chair

جامعة محمد بوضياف بالمسيلة  
University Mohamed Boudiaf of M'Sila  
كلية التكنولوجيا  
Faculty of Technology

## The 2025 International Conference of Advanced Technology in Electronic and Electrical Engineering (ICATEEE)



**ICATEEE 2025**

December 10 – 11, 2025

M'Sila, Algeria



**ICATEEE 2025**

<https://media.univ-msila.dz/ICATEEE25/>

### PROGRAM AND USEFUL INFORMATION



# The 2025 International Conference of Advanced Technology in Electronic and Electrical Engineering (ICATEEE)

December 10 – 11, 2025

M'Sila, Algeria



## Organizing Committee Chair:

Dr. Assam ZORIG  
Dr. Youcef Brik

## Conference Chairman:

Prof. Ismail GHADBANE  
Prof. Attalah bilal

## Scientific Committee Chair:

Prof. Abderrahmen BOUGUERRA  
Prof . Ladjel Mohammed

## Organizing Committee members:

Abdelghafour Herizi Abdelhafid Benyounes Riyadh Rouabhi Fayssal Ouagueni Abderrahim Zemmit Djalab abdelhakim Achene Abed Izzeddine Chalabi Riad Bouzidi Mostafa Tabbakh Moufdi Hadjab Abdelmalik Zorig Salim Djeriou Hani Benguesmia	Khaled Belhouchet Hellali Lallouani Samir Zeghlache Haddi Bakhti Keltoum Loukal Abderrahmen Bouguerra Abderrzak Laib Mourad Naidji Fares Mezrag Noureddine hamouda Badreddine Babes Khatir Khettab Loutfi Benyettou, Hilal Rahali	Ishaq Aiche Nahed Zemouri Mohamed sahed Abdelouadoud Loukriz khaled benzaoui Ghadbane Houssam Eddine Ayyoub Zeghlache Ghadbane Tahar Saad Bella Zakaria Alili Nadjim Alti Arif Bourezami	Boutheyna Djemai Ayyoub Berra Youssouf Bouzidi Hatem Mezaache Abousoufyane Slatnia Maroua Louglaib Assia Bounif Cheyma Nadir Mohamed Ouahabi Mohamed Boukhari
---	--	---	--



# The 2025 International Conference of Advanced Technology in Electronic and Electrical Engineering (ICATEEE)

December 10 – 11, 2025

M'Sila, Algeria



## KEYNOTE SPEAKER

### SPEECH TITLE:

Securing the Invisible: Fortifying Critical National Infrastructure in the IoT Age

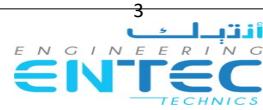
### BIOGRAPHY:



Dr Mohamed Chahine Ghanem

Director of the Cyber Security Research  
Centre/ London Metropolitan University  
[m.ghanem@londonmet.ac.uk](mailto:m.ghanem@londonmet.ac.uk)

Dr Mohamed Chahine Ghanem is an Associate Professor and Director of the Cyber Security Research Centre/ London Metropolitan University, Associate Professor in Cyber Security within the Department of Computer Science at the University of Liverpool, and Industry Advisor in Cyber Resilience. Before joining Academia, Dr Ghanem earned solid industry experience with over 20 years of practice in mid-senior positions in Law enforcement and corporations mainly acting as Principal Cyber Investigator and Director for Cyber Risk. Dr Ghanem holds an Engineering Degree in Computer Systems, an MSc in Digital Forensics & IT Security and a PhD in Cyber Security Engineering from the City, University of London. Dr Ghanem is a Senior Fellow of HEA (SFHEA) and holds a PGCert in Academic Practice and a PGDip in Security Studies and earned many reputable certificates such as CISSP, CPCl, multi-GIAC certificate GCFE, GICSP, GWAPT, GDSA, GCED, GWEB and Digital Forensics ACE & XRY. Dr Ghanem is currently leading the research in applied AI for Cyber Security and Digital Forensics and supervising research students on topics related to digital forensics, IoT, offensive cyber security and applied AI and published numerous research papers in top journals. Dr Ghanem is an Academic Editor for ACM Digital Threats: Research and Practice journal and Member of UK EPSRC Peer Review College.



# The 2025 International Conference of Advanced Technology in Electronic and Electrical Engineering (ICATEEE)



ICATEEE 2025

December 10 – 11, 2025

M'Sila, Algeria



ICATEEE 2025

## KEYNOTE SPEAKER



Dr Zool Hilmi Ismail

Deputy Director, Centre of Artificial Intelligence and Robotics, Universiti Teknologi Malaysia

[zool@ieee.my](mailto:zool@ieee.my)

### BIOGRAPHY:

Dr. Zool Hilmi Ismail currently works as an Associate Professor and a research member of the Malaysia-Japan International Institute of Technology and Centre for Artificial Intelligence and Robotics (CAIRO). He was awarded a SEARCA Regional Professorial Chair Grant for AY 2021-2022 in recognition of his contributions to agricultural technology.

AP. Ir. Dr. Zool Hilmi Ismail received his B.Eng and M.Eng degrees in Mechatronics Engineering from UTM, Skudai, Johor, Malaysia, in 2005 and 2007, respectively. After graduation, he worked as a tutor at Universiti Teknologi Malaysia (UTM), one of Malaysia's leading research universities. AP. Ir. Dr. Zool Hilmi started as a Senior Lecturer in 2011 after completing his Ph.D. from Heriot-Watt University, Edinburgh, United Kingdom. His role in UTM is not only as an educator but also as a researcher. His main research interest is in the control of autonomous systems, robot motion planning, and coordination, along with applied combinatorial optimization. AP. Ir. Dr. Zool Hilmi Ismail has published 81 journal papers and two book chapters in the past five years. He also obtained two Industrial Designs in "Active Floating Sensor Module and Duct Inspection Robot.



# The 2025 International Conference of Advanced Technology in Electronic and Electrical Engineering (ICATEEE)

December 10 – 11, 2025

M'sila, Algeria



ICATEEE 2025



**Prof. Mohamed Fouad BENKHORIS**

Directeur-adjoint Polytech Nantes

Enseignant-chercheur

[Mohamed-Fouad.Benkhoris@univ-nantes.fr](mailto:Mohamed-Fouad.Benkhoris@univ-nantes.fr)

## KEYNOTE SPEAKER

### SPEECH TITLE:

**Dynamic Modeling of Multi-Phase Synchronous Machines for Control Design and Analysis**

### BIOGRAPHY:

**Mohamed Fouad Benkhoris was born in Bou-Saada, Algeria. He earned the following degrees:**

**In 1986:** An Engineering Diploma from the National Polytechnic School of Algiers, with a specialization in Electrical Engineering.

**In 1987:** A DEA (Diplôme d'Études Approfondies) from INPL Nancy, with a specialization in Electrical Metrology and Automatic Control.

**In 1991:** A Ph.D. from INPL Nancy (GREEN Laboratory), with a specialization in Electrical Engineering.

**In 2004:** An HDR (Habilitation à Diriger des Recherches) from the University of Nantes, with a specialization in Electronics and Electrical Engineering.

**Since 2000**, he has been conducting his research at the IREENA laboratory in the fields of traction and energy generation. His work focuses on the dynamic modeling and control of fault-tolerant power conversion architectures that incorporate multiphase machines. These investigations are driven by the goal of developing conceptual and methodological tools for dynamic modeling, numerical simulation, design, and control of innovative, fault-tolerant converter-machine assemblies. This work, which adopts a system-level approach, ranges from fundamental research to industrial applications. The target applications are electric propulsion - particularly for ships - onboard or islanded electrical grids, and the harnessing of marine renewable energies, from energy production to storage.



# The 2025 International Conference of Advanced Technology in Electronic and Electrical Engineering (ICATEEE)

December 10 – 11, 2025

M'sila, Algeria

## KEYNOTE SPEAKER



Dr. Amira Ouerfelli

IEEE IAS WIE Region 8  
Representative ENIT Tunisia

### SPEECH TITLE:

Igniting Innovation and Inclusivity: Leveraging the Dual Power of IEEE WIE and Entrepreneurship

### BIOGRAPHY:

**Amira Ouerfelli** is an electrical engineer specialized in robotics, embedded systems, and AI, holding a master's degree in Information System Technologies from ENIT. Passionate about creating sustainable impact through technology, she has been active in IEEE since 2021 and currently serves as IEEE SIGHT Tunisia Section Chair, Humanitarian Technologies Coordinator for Tunisia Section, and an IEEE Smart Village volunteer since 2022. She also co-chairs the Implementation Committee for Education at Smart Village Global.

Amira mentors engineers through IEEE Entrepreneurship and leads initiatives in branding, communication, and global energy dialogue. She has been recognized for her leadership, including the Best Performance Sustainable Project Award at IEEE PowerAfrica 2024. She also mentors young professionals in humanitarian programs and contributes to education equity through a pilot program with the ISV Education Committee, while serving as IAS WIE Region 8 Representative.

Beyond IEEE, Amira chairs the Catastrophe Prevention and Management Team at the Tunisian Red Crescent, focusing on disaster risk reduction and community resilience. Her work at the intersection of technology, sustainability, and service continues to drive meaningful change.



# ICATEEE2025 PROGRAM

Wednesday, December 10, 2025	
<b>07:30 - 08:45</b>	<b>Reception &amp; Conference Registration</b>
	<b>Opening Ceremony</b>
<b>08:45 - 09:45</b>	<p>Pr. Ghadbane Ismail, General Chair.</p> <p>Dr. Abdelkader DJERAD, Dean of the Faculty of Technology, University of M'Sila.</p> <p>Pr. BOUDELAA Amar, Rector of the University of M'Sila.</p> <p>Pr . SELLAMI Mokhtar , CNRST, Algérie</p> <p>Pr . Attalah bilal , Vice chair IEEE Algeria section</p>
<b>09:45 - 10:30</b>	<p>Chair: Prof. Barkat said , Pr. Iratni Abdelhamid , Pr. Messalti Sabir , Pr. Benkhoris Mohamed Fouad</p> <p><b>Keynote speech 2:</b> AI-Driven Digital Twin and Vision-Language Models for Climate-Resilient Smart Agriculture Systems</p> <p><b>Speaker:</b> Prof. Zool Hilmi Ismail</p>
<b>10:30 - 11:00</b>	<p>Chair: Prof. Barkat said , Pr. Iratni Abdelhamid , Pr. Messalti Sabir , Pr. Benkhoris Mohamed Fouad</p> <p><b>Keynote speech 1:</b> Igniting Innovation and Inclusivity: Leveraging the Dual Power of IEEE WIE and Entrepreneurship</p> <p><b>Speaker :</b> Dr. Amira Ouerfelli IEEE IAS WIE Region 8 Representative IEEE Tunisia section</p>
<b>11:00 - 11:15</b>	<b>Coffee Break</b>
<b>11:15 - 12:30</b>	<p>Chair: Pr. Attalah bilal , Pr. Youcef brik , Pr. Iratni Abdelhamid , Pr. Drid Said</p> <p><b>Keynote speech 3:</b> Prof. Mohamed Chahine Ghanem</p> <p><b>Speaker:</b> Securing the Invisible: Fortifying Critical National Infrastructure in the IoT Age</p>

<b>12:45 - 14:00</b>	<b>Lunch Break</b>
----------------------	--------------------



<b>14:00 - 16:00</b>	<b>Oral Sessions</b>
----------------------	----------------------

SESSION 1 Wednesday 14:00 – 16:00	<b>Electronics, Telecommunications and signal processing</b>	<b>ROOM 1</b>
	<b>Chairs: Pr. Bouras Mounir , Pr. Messaoud garah and Pr. Houcine Oudira , Dr. Benyouunes abdelhafid</b>	
	<b>Authors and titles</b>	
14:00 – 14:20 (Paper 67)	Authors: rania saoudi Djamel Eddine Boudechiche, Zoubeida Messali Title : Joint Demosaicing, Denoising, and Super Resolution for Wireless Capsule Endoscopy Images	
14:20 – 14:40 (Paper 107)	Authors: Ziyad Younsi, Meddour Fayçal, Hichem Bencherif Title: Numerical Investigation of Interfacial Defects, BSF Layer, and Parasitic Resistances in CBTSSe Thin Film Solar Cells Using SCAPS-1D	
14:40 – 15:00 (Paper 44)	Authors: Souhila Benmansour, Fethi Demim, Aimen Abdelhak Messaoui, Yamina Aouimer, Ali Zakaria Messaoui, Abdenebi Rouigueb Title: Integrated Fuzzy Logic and RRT-Based Optimal Trajectory Planning with Metaheuristic.	
15:00 – 15:20 (Paper 87)	Authors: Djamel Haimoune, Boumediene Guenad, Hadj Ali Bakir, Ali Zidour Title: Design and Analysis of a Miniaturized Multi-Band Ultra-Wideband Microstrip Patch Antenna for 5G	
15:20 – 15:40 (Paper 81)	Authors: Telia Azzedine, Meziani Abdelhakim Title: Comparative Study of Electrical Characteristics in MgZnO/ZnO and AlGaN/GaN HEMTs	
15:40 – 16:00 (Paper 45)	Authors: Fethi Demim, Aimen Abdelhak Messaoui, Souhila Benmansour, Zakaria Messaoui, Yamina Aouimer, Abdenebi Rouigueb, Ouail Moumeni, Title: Development of a 3D Simultaneous Localization and Mapping System for Unmanned Aerial Vehicle Navigation	

SESSION 1 Wednesday 14:00 – 16:00	<b>Electronics, Telecommunications and signal processing</b>	<b>ROOM 2</b>
	<b>Chairs: Pr. Mezache Amar , Pr. Ouali Mohamed Assam , Pr. Mohamed Djrioui</b>	
	<b>Authors and titles</b>	
14:00 – 14:20 (Paper 72)	Authors: Maroua ARAB, Rabah LOUALI, Atmane KHELLAL, Aimen Abdelhak MESSAOUI, Hadjira BELAIDI, Mehrez BOULAHMAR, Billel NEBILI, Fethi DEMIM Title: A Novel RGB Image Dataset for Road Obstruction Level Classification in Catastrophe Scenarios	
14:20 – 14:40 (Paper 122)	Authors: Zakariaou Mounmie, Yacine Yaddaden, Abdenour Bouzouane Title : A Hybrid Deep Learning Pipeline for Melanoma Detection Using Modified U-Net and VGG-19 Features	
14:40 – 15:00 (Paper 178)	Authors: Choumeyssa CHENNOUF, Idris MESSAOUDENE, Massinissa BELAZZOUNG, Youcef BRAHAM CHAOUCHE, Aicha GHERBI, Boualem HAMMACHE, Salem TITOUNI Title (ID178): Enhanced Isolation in CDRA Massive MIMO Arrays Using Alternating Slot Orientation Rotation (ASOR)	
15:00 – 15:20 (Paper 40)	Authors: Imam Abderrahmane, Rahmi Bachir, Makdour Mansour, Badaoui Hadjira, Abri Mehadji, Bensalah Hocine, Wahiba Menasri, Abdenour Fellag Chebra, Abderrezak Gacemi Title(ID40): A Dual-Mode Plasmonic Filter Based on Bow-Tie Resonator for Optical Communication	



<b>15:20 – 15:40</b> (Paper 60 )	<b>Authors:</b> Salah Khennouf, Adil Bakri <b>Title :</b> Recognition for Access Control: A Comparative Analysis of MFCC and PLP Features using CNN-Based Classification
<b>15:40 – 16:00</b> (Paper 48)	<b>Authors:</b> Raouf Amrane, Youcef Brik, Abdelouadoud LOUKRIZ, Taha Housseyn Nouibat <b>Title(ID48):</b> Cascaded Integrator Comb Filters with Performance Enhancement through Sampling Rate Optimization

<b>SESSION 1</b> <b>Wednesday</b> <b>14:00 – 16:20</b>	<b>Electrical engineering and renewable Energy</b>	<b>ROOM 3</b>
	<b>Chairs: Prof. Kaddour Djamel , Dr. Zorig Abdelmalik , Dr. Bouzidi Riad , Pr.Hani Bengeusmia</b>	
	<b>Authors and titles</b>	
<b>14:00 – 14:20</b> (paper 197)	<b>Authors:</b> Choug Noredine ,Fegriche Abderrahmane <b>Title:</b> Intelligent Approach for Direct Torque Control of DFIM: Fuzzy Regulation with Self-Adaptive Gain.	
<b>14:20 – 14:40</b> (Paper 41)	<b>Authors:</b> Ayyoub Zeghlache, Hemza Mekki, Ali Djeriou, Abdelmoumin Ouali <b>Title:</b> Comparative Analysis of Conventional and Improved QPLL for PMSM Speed Control Under Sensor Fault	
<b>14:40 – 15:00</b> (Paper115)	<b>Authors:</b> Abdelmoumin Ouali , Djalal Eddine Khodja , Hassina Megherbi , Khaled Benzaoui , Tahar Nouaoui , Ayyoub Zeghlache <b>Title(ID115):</b> Enhancement of Field Oriented Control for PMSM Based on Fractional Order PID	
<b>15:00 – 15:20</b> (Paper102)	<b>Authors:</b> Tahar Nouaoui, Abdelhakim Dendouga, Abdelmalik Bendaikha, Abdelmoumin Ouali <b>Title(ID102):</b> Robust Speed Control of PMSM using a Fractional Order Two Degree of Freedom PI Controller	
<b>15:20 – 15:40</b> (Paper217)	<b>Authors:</b> Yassine Mahamdi, Abdelouahab Mekhaldi, Ahmed Boubakeur, And Youcef Benmahamed <b>Title:</b> Towards Reliable Transformer Fault Diagnosis: A BPSO-Optimized DGA Interpretation Framework	
<b>15:40 – 16:00</b> (Paper35)	<b>Authors:</b> Bdelouadoud Loukriz, Ahmed Bendib, Abderrahim Zemmit, Moadh Kichene, Mohamed Dahmani ,Zine El-Abidine Dahmane <b>Title:</b> Innovative Physical Reconfiguration of PV Arrays for Enhanced Power Output under Partial Shading Conditions	
<b>16:00 – 16:20</b> (Paper51)	<b>Authors :</b> Khaled Benzaoui, Abdelmoumin Ouali, smail Ghadbane <b>Title (ID51):</b> DSIG within a wind turbine system-based high order sliding mode control	



<b>15:00 - 17:40</b>	<b>Virtual Sessions</b>
----------------------	-------------------------

<b>SESSION 2 Wednesday 15:00 – 17:20</b>	<b>Electrical engineering and renewable Energy</b>	<b>ROOM 1</b>
	<b>Chairs: Prof. Guichi Omar , Dr. Zemmit Abderrahim , Pr.Khatir Khettab, Dr.Rouabhi Riyadh.</b>	
	<b>Authors and titles</b>	
15:00 – 15:20 (Paper 167)	Authors: ABOUCHABANA Nabil, BENMLOUD Mohammed, AMEUR Khaled, HADJAISSE Aboubakeur, ZORIG Abdelmalik, BENFARHAT Sara Title: A Low-Cost IoT-Based Smart Weather Station for Real-Time Environmental Monitoring.	
15:20 – 15:40 (Paper 219)	Authors: Mohammed Yassine Dennai, Hamza Tedjini Title: Enhancing Grid Resilience and Sustainability: A Solar-Powered Electric Vehicle Charging Station with G2V	
15:40 – 16:00 (Paper 109)	Authors: Mohammed BENMLOUD, Khaled AMEUR, Aboubakeur HADJAISSE Title: Optimal DC Bus Voltage Regulation for Solar Microinverters: Experimental Validation	
16:00 – 16:20 (Paper 70)	Authors: SALHI, Fatma Zohra; MEHAOUCHI, Azeddine; ZIOUD, Mohammed Messaoud; DLILI, Mohammed Taha; BOUZIDI, Mansour. Title: Predictive Direct Power Control of a Three-Level Grid-Connected Converter With DC-Link Capacitor Voltage	
16:20 – 16:40 (Paper 206)	Authors: Shehwar Tanveer1, Aqsa Ashfaq1, Savaira Nadeem1,Muhammad Asad1, Sadia Ali1 and Adil Farooq Title(ID206): Smart Brain-Controlled Prosthetic Leg for Enhanced Mobility of Disabled Persons	
16:40 – 17:00 (Paper 141)	Authors: Adil Farooq, Tadhg Joseph Creagh, Eoghan Patrick Mooney, Conrad Attard, Peter Redmond Title(ID141): ClusterBot: An Innovative Strategy Introduced in the IEEE R8 Robotics Championship 2024	
17:00 – 17:20 (Paper 179)	Authors: Sahibzada Muhammad Ali, Mansoor Iqbal, Adil Farooq, Muhammad Abbas. Title(ID 179): AI for Energy Equity: Bridging the Gap Between Sustainability and Accessibility	

<b>SESSION 2 Wednesday 15:00 – 17:40</b>	<b>Electronics, Telecommunications and signal processing</b>	<b>ROOM 2</b>
	<b>Chairs: Dr. Moufdi hadjab , Pr.Slimane Benmahmoud , Dr.Salah Khennouf , Djalab Abdelhakim</b>	
	<b>Authors and titles</b>	
15:00 – 15:20 (Paper 88)	Authors: Marouane Chetioui , Babesse Saad ,Bouchikhi Nasreddine. Title : Generalizable Conditional Imitation Learning for Urban Driving: A Multimodal ConvLSTM Approach in Adverse	
15:20 – 15:40 (Paper 84)	Authors: Karima Bencherif, Mohammed Titaouine, Awatef Djouimaa, Asma Bounouara, Ibtissem Adoui Title: Analysis of Multiband Adjusted and Gain Enhanced Microstrip Antennas	



15:40 – 16:00 (Paper 230)	Authors: <b>Messaoud Babaghayou, Fatima Zahra Zaoui</b> Title: Optimizing End-to-End Delay, Energy Consumption, and Task Success in Satellite-Based Edge Computing for Smart Farming in Isolated Environments
16:00 – 16:20 (Paper 152)	Authors: <b>Istighfar Chettih , Fatima Chouireb, Saadi Achour, Khalil Mokhtari</b> Benchmarking Scan-Matching and Scan-Context for 3D Outdoor LiDAR Graph-SLAM
16:20 – 16:40 (Paper 129)	Authors: <b>Mahdi Baccar, Yacine Yaddaden, Raef Cherif</b> Title: brid Deep Learning and Multiclass SVM Approach for Alzheimer's Disease Stage Classification from MRI Scans
16:40 – 17:00 (Paper 200)	Authors: <b>Abdelmalek Bengheni</b> Title : ASI-MAC : An Adaptive Sleep Interval MAC protocol for energy harvesting WSNs
17:00 – 17:20 ( Paper 124)	Authors: <b>Zaki Aissam Khezzar ,Redha Benzid and Elhadi KENANE</b> Title: Transform-based algorithms dedicated to ECG baseline drift cancellation: A comparative study
17:20 – 17.40 ( Paper 37)	Authors: <b>ABDELLATIF BENDALI, Hadjira Badaoui, Bachir Rahmi, Abderrahmane Imam, Mehadji Abri</b> Title: Proposal for a novel 4×2 encoder structure based on linear photonic crystal ring resonators
<b>SESSION 2 Wednesday 15:00 – 17:20</b>	<b>Electronics, Electrical engineering</b> <span style="float: right;"><b>ROOM 3</b></span> <b>Chairs: Prof. Salim Djriou , Dr.Mourad Naidji, Dr. Assam Zorig , Dr. Khaled belhouchet</b> Link : <a href="https://meet.google.com/bae-ptpo-vbo">https://meet.google.com/bae-ptpo-vbo</a> <b>Authors and titles</b>
15:00 – 15:20 (Paper 59)	Authors: <b>Salim Hamouda, Abderrahim Hamli , Samir Hamdani , Hamid Khelfi</b> Title: Comparison of Parallel and Iterative CORDIC Architectures for Sine and Cosine Computation on FPGA
15:20 – 15:40 (Paper 13)	Authors: <b>Hadjer CHABAN, Ilyes TEGANI, Hamza AFGHOUL, Soumia MERAH</b> Title : Flatness-Based Control of a PV-Battery Hybrid System with PSO and DO-Tuned PID Controllers for DC Bus
15:40 – 16:00 (Paper 75)	Authors: <b>Houssameddine Mansouri</b> Title: Three-Phase LCL filtered Quasi-Z Source Inverter with MIMO Sliding Mode Controller
16:00 – 16:20 (Paper 146)	Authors: <b>Abdelmoumene Hechifa , Abdelaziz Lakhel ,Chouib Labiod , Said Djaballah ,Ali Bebboukha , Redha Meneceur</b> Title: Overcoming Issues with Source Data for Early Fault Detection in Power Transformers: A Comparison with Combined Triangle Methods
16:20 – 16:40 (Paper242 )	Authors: <b>Nadjim Alti, Bayadi Abdelhafid, Ouchen Lyamine</b> Title : Analysis of Electric Field and Voltage Distribution in a 220 kV Surge Arrester Equipped with a Grading Ring Using the Finite Element Method
16:40 – 17:00 (Paper159)	Authors: <b>hamouda Noureddine, Badreddine Babes, Badi Ridha , Uwe Räde</b> Title : Enhanced the Selective and Global Harmonic Suppression in Single-Phase Systems using a Modified P-Q Based APF
17:00 – 17:20 (Paper 160)	Authors: <b>Sait Oussama, Mabrouk Khemliche, Samia Latreche, Belkacem Sait, Hamza Khemliche</b> Title: Real-Time Fault Detection and Classification in PV Systems Through Classical Thresholding Techniques



16:00 – 17:00		Hall Technology Poster sessions
SESSION 3 Wednesday 16.00 – 17:00	Electrical engineering	
	<b>Chairs: Dr. Mostafa Tabakh, Dr.Mohamed Sahed, Pr.Fouad Berrabeh, Dr. Defdaf Mabrouk. Dr .Cherif Bilal</b>	
	<b>Authors and titles</b>	
	<i>Author: Abdelouahab Benseddik, Abdelghani Boubekri, Hocin Bensaha, Djamel Daoud, Adiba Benahmed Djilali</i>	
	<i>Title(ID233): Experimental and Modeling Study of a Solar-Powered Greenhouse Dryer: Energy Efficiency and Thermal</i>	
	<i>Authors: louakhche fatiha , abed ahcene, bendoumia redha , bouchekhlal ahmed</i>	
	<i>Title(ID218): Design of C_band compact SIW power divider</i>	
	<i>Authors: Younes Chebabhi Abdelghani Dendouga , Souhil Kouda</i>	
	<i>Title(ID74): Simulation and Analysis of Propagation Delay and Power Dissipation in CMOS Inverter on CADENCE</i>	
	<i>Authors: Adil Bakri, Youcef Brik, Ely cheikh Aida, Said Fahem, Salah Khennouf</i>	
	<i>Title(139): Development of an Arabic voice control system using convolutional neural networks CNN</i>	
	<i>Authors: Bettahar Fares, Abdeddaim Sabrina,Betka Achour,Bettahar Seif Eddine,Michael Short,Maher Al-Greer</i>	
	<i>Title(ID156) Parametric Identification of a Deep-Cycle Gel Battery Using the Recursive Least Squares (RLS)</i>	
	<i>Authors: Tidjani Mahni, Mohamed Toufik Benchouia, Nadhir Mesbahi</i>	
	<i>Title(ID36): Particle Swarm Optimization of Fuzzy Logic Controller for Shunt Active Filter</i>	
	<i>Authors: Fares.Mezrag, Noureddine Chikouche, Anwar Noureddine Bahache</i>	
	<i>Title(ID125): A Comparative Analysis of Classical and Post-Quantum Public-Key Cryptography on Resource-Constrained IoT Devices</i>	
	<i>Authors: Abderrzak Laib,Salah Khennouf, Abdelghafour Herizi</i>	
	<i>Title(ID201): Acoustic Emission Based Bearing Fault Localization Using Wavelet Features and Random Forest Classifier</i>	
	<i>Authors : Hatem Mezaache, Nahed Zemouri, Zakaria Zemali</i>	
	<i>Title (ID 117): Short-Term Solar Power Prediction with Weighted Fusion of Deep Learning and Regression Models Using Multivariate Weather Variables</i>	
	<i>Authors: Samia Redjem , Mohamed Sahed.</i>	
	<i>Title(ID215): Noncoherent Parameter-Free GM-CFAR Processor for Multipulse Detection in Heavy-Tailed ParetoDistributed Clutter</i>	
	<i>Authors : Nahed Zemouri , Hatem Mezaache, Zakaria Zemali, Fabio LaForesta, Mario Versaci</i>	
	<i>Title (ID199): Enhancing Weather Prediction Accuracy via PSO-Optimized SVR and Feature Correlation</i>	



**Thursday, December 11, 2025**

<b>08:00 - 08:30</b>	<b>Reception &amp; Conference Registration</b>
<b>08:30 - 09:15</b>	<p>Chair: Prof. Khodja Djalal , Pr. Said Barkat, Pr.Samir Zeghlache, Pr. Ali djeriou</p> <p>Keynote speech 1: Prof. Mohamed Fouad Benkhoris</p> <p>Speaker : Dynamic Modeling of Multi-Phase Synchronous Machines for Control Design and Analysis</p>
<b>09:15 - 10:00</b>	<p>Chair: Prof. Khodja Djalal , Pr.Said Barkat, Pr.Samir Zeghlache, Pr. Ali djeriou</p> <p>Keynote speech 1: TRL 5–7 &amp; Scientific Diplomacy</p> <p>CNRST, Algérie</p> <p>Speaker: Prof. Mokhtar SELLAMI</p>
<b>10:00 - 10:30</b>	<b>Coffee Break</b>
<b>IEEE Workshop</b> <b>10.30 – 12.00</b>	<p>Chair: Dr. Salah khenouf , Dr. Youcef Brik , Pr. Iratni Abdelhamid , Pr. Drid Said</p> <p>Keynote speech 1</p> <p>IEEE: Honoring the Legacy, Engineering the Future</p> <p>Speaker: Dr. Elotri Ahmed + Dr.Amira Ouerfelli</p>



<b>10:30 - 12:30</b>	<b>Oral Sessions</b>
----------------------	----------------------

SESSION 1 Thursday 10:30 – 12:20	Electronics, Telecommunications and signal processing	ROOM 1
	Chairs: Prof. Hamza Bennacer , Pr. Mohamed Ladjal , Dr. ELhadi Kenane , Dr.Fares Mezrag	
	Authors and titles	
10:30 – 10:50 (Paper 225)	Authors: Meftah Sabir, Bentoumi Miloud, Dirman Hanafi Burhanuddin Title: Enhancement of Transient Signal Quality in Leak Detection Applications via Savitzky-Golay and Kalman Filtering	
10:50 – 11:10 (Paper 220)	Authors: Nadir Cheyma, Brik Youcef, Attallah Bilal Title: A multimodal biometric system based on multi-level fine-tuning using score fusion	
11:10 – 11:30 (Paper 172)	Authors: Maroua Louglaib,Izzeddine Chalabi Title: Parameter Estimation and Modeling Performance of Compound-Gaussian Clutter with Weibull Distributed Texture	
11:30 – 11:50 (Paper 106)	Authors: Chaima Chabira, Haddi Bakhti, Miloud Bentoumi, Ibraheem Shaye, Riyadh Benyettou Title: Leak Detection and Localization in Pipelines with Volume Rate Estimation Based on Pressure Signals	
11:50 – 12:10 (Paper 89)	Authors : Youssouf Bouzidi, Oussama Bouguerra, Youcef Brik, Bilal Attallah, Mohamed Djeriou Title : Deep Learning Architectures for Precise Segmentation of Brain Tumors in MRI Images	
12:10 – 12:30 (Paper 85)	Authors : Ayyoub Berra, Oussama Bouguerra,Bilal Attallah, Youcef Brik, Mohamed Djeriou, Ibraheem Shaye, Saleh Ibrahim Al-Zahrani, Youssouf Bouzidi Title : Enhancing Brain Tumor Classification Accuracy through Multi-Modal MRI Analysis and Advanced Ensemble Deep Learning	

SESSION 1 Thursday 10:30 – 12:20	Electrical engineering and renewable energy	ROOM 2
	Chairs : Dr.Haddi Bakhti ,Dr.Bentoumi Meloud, Dr.Ouagueni Fayssal , Pr. Izzeddine Chalabi	
	Authors and titles	
10:30 – 10:50 (Paper 65)	Authors : Boutheyna Djemai, Amar Mezache, Houcine Oudira Title : Trimodal Generalized Gamma model for Maritime Radar Sea-Clutter	
10:50 – 11:10 (Paper 148)	Authors : Abousoufyane Slatnia, Mohamed Ladjal, Mohammed Assam Ouali, Mohammed Assam Ouali, Hamza BENNACER Title : Enhancing Water Quality Index Prediction: A Comprehensive Evaluation of Gaussian Noise Augmentation in Hybrid Ensemble Machine Learning Model	
11:10 – 11:30 (Paper 228)	Authors: Saad Bella, Said Barkat. Title: Single-Phase Inverter Deadbeat Control with Disturbance Rejection: PIL Validation	
11:30 – 11:50 (Paper 149)	Authors : Ishaq Aiche, Youcef Brik, Bilal Attallah, Hegazy Rezk, Ibraheem Shayeai, Zool Hilmi Ismail Title (ID149): High-performance diabetic retinopathy detection using MobileNetV3-Large with RGB and CLAHE fundus images	
11:50 – 12:10	Authors: Dahoum Mehdi Abdessamad, Kara Kamel, Zeghlache Samir	



(Paper 73)	<b>Title:</b> Optimized Synergetic Control based on Equilibrium Optimizer for Quadcopter Under External Disturbances and Parameter Uncertainties
------------	--

<b>SESSION 1</b> <b>Thursday</b> <b>10:30 – 12:10</b>	<b>Electrical engineering and renewable energy</b>	<b>ROOM 3</b>
	<b>Chairs: Pr. Loutfi Benyettou, Dr.Hilal Rahali , Hamza Mekki , Abdelghafour Herizi</b>	
	<b>Authors and titles</b>	
<b>10:30 – 10:50</b> (Paper 237)	<b>Authors :</b> Hafid Benyounes, Mohammed Said Ouahabi, , Said Barkat. Title (ID237): Observer-Based Sensor Fault-Tolerant Control for DC–DC Buck Converters	
<b>10:50 – 11:10</b> (Paper 238)	<b>Authors:</b> Mohamed Boukhari Title (ID238): Independent FOC Control of Dual Front Induction Motors Considering Differential Wheel Speeds in Electric Vehicles	
<b>11:10 – 11:30</b> (Paper 240)	<b>Authors:</b> Zakaria Alili, Ghadbane Ismail, Bouzidi Riad, Ghilani Abdelmoumen, Ghoudbane Ahmed Marouane Title (ID240): Sensorless BLDC Motor Control via Observer: Comparative PI Tuning with EO vs GWO and Using DSP-launchpad for PIL Validation	
<b>11:30 – 11:50</b> (Paper 223)	<b>Author:</b> Mohammed Said Ouahabi, Said Barkat , Abdelhafid Benyounes, Syphax Ihammouchen, Mourad Zebboudj Title(ID234): Sensor Fault Isolation And Tolerant Control Of Distributed Generation Power Converters In A DC Microgrid	
<b>11:50 – 12:10</b> (Paper 234)	<b>Authors:</b> Salim Djeriou Bounif Assia, Abderrahim Zemmit, Ismail Ghadbane, Riyadh Rouabhi, Mourad Naidji Title : Comprehensive Design and Analysis of Overcurrent Relay Protection and Coordination for a 220 MW Grid-Connected Power Plant	



<b>10:30 – 12:30</b>		<b>Hall Technology</b> <b>Poster sessions</b>
<b>SESSION 2</b> <b>Thursday</b> <b>10:30 – 12:30</b>		<b>Electrical engineering</b>
<b>Chairs : Dr. Mohamed Ghellab, Dr. Hellali Lallouani, Dr. Bakri Badis, Dr. Abed Ahcene, Dr. Laib abderrzak.</b>		
<b>Authors and titles</b>		
<p><b>Authors :</b> <i>Keltoum Loukal Abderrahmen Bouguerra, Housseyn Serai</i>  <b>Title (ID236):</b> <i>Smart Control of Flexible-Joint Manipulator Arm Using a Hybrid ANFIS Architecture</i></p>		
<p><b>Authors:</b> <i>Arif Bourezami, Mohammed Amroune.</i>  <b>Title(ID243):</b> <i>Short-Term Wind Power Forecasting Using Optimally Tuned Adaptive Neuro-Fuzzy Inference System</i></p>		
<p><b>Authors:</b> <i>Abderrahmen Bouguerra, Kelthoum Loukal, Housseyn Serai</i>  <b>Title(ID235):</b> <i>Passive Sliding Mode Fault-Tolerant Control Approach for a Robotic arm with a Gripper</i></p>		
<p><b>Authors :</b> <i>Abdelmalik Zorig, Said Barkat, Mohammed Belkheiri, Abdelhamid Rabhi, abdelhafid Benyouunes</i>  <b>Title (ID241):</b> <i>Control of Grid connected PV System Based Paralleled T-type Multilevel Inverters</i></p>		
<p><b>Authors:</b> <i>Abdelkader Djerad, Samir Zeghlache</i>  <b>Title(ID244):</b> <i>Fault Tolerant Control Based on Adaptive Type-2 Fuzzy Global Fast Dynamic Terminal Sliding Mode for Actuators Failures inan Omnidirectional Vehicle</i></p>		
<p><b>Authors:</b> <i>Badreddine Babes hamouda noureddine, Badi Ridha, Uwe Räde,</i>  <b>Title(ID191):</b> <i>Improved Efficiency of Selective Active Filtering of the Dominant Harmonic Currents Using a Robust PQ Technique-Based Single-Phase APF</i></p>		
<p><b>Authors :</b> <i>Khaled Belhouchet, Assam Zorig, Ismail Ghadbane, Abdelhakim Idir.</i>  <b>Title (ID164):</b> <i>Performance Evaluation of Advanced Control Strategies for Microgrids Using ANOVA-Based Statistical Analysis</i></p>		
<p><b>Authors :</b> <i>Assam Zorig, Khaled Belhouchet, Noureddine Hamouda, Badreddine Babes.</i>  <b>Title (ID170):</b> <i>Optimization Of Magnets And Minimisation of Torque Ripple in brushless AC embedded permanent magnet motor</i></p>		
<p><b>Authors:</b> <i>Mourad Naidji ,Salim Djeriou, Mohamed Ilyas Rahal</i>  <b>Title (ID28) :</b> <i>Dynamic Analysis of Transmission Power Systems with High Wind Power Integration under Severe Disturbances</i></p>		
<p><b>Authors :</b> <i>Herizi Abdelghafour, Abed Ahcene, Ouagueni Fayssal, Laib Abderrzak, Zemmit Abderrahim, Rouabhi Riyadh.</i>  <b>Title (ID56):</b> <i>Adaptive Fuzzy-PI Hybrid Control of Permanent Magnet Synchronous Motors</i></p>		
<p><b>Authors :</b> <i>Riyadh Rouabhi, Abdelghafour Herizi, Salim Djeriou, Labib Bensaadia.</i>  <b>Title (ID68):</b> <i>Lyapunov stability and control of active and reactive powers generated by wind energy conversion system based of a doubly fed induction generator</i></p>		
<p><b>Authors:</b> <i>Houssam eddine Ghadbane, Said Barkat, Azeddine Houari, Hegazy Rezk, Ali Chebabhi, Tedjani Mesbahi</i>  <b>Title(ID 223):</b> <i>Hardware-in-the-Loop of an Optimal Energy Management Strategy for Electric Vehicle Applications</i></p>		
<b>12:30 – 13:00</b>		<b>Conference closing</b>