

# THE 2ND INTERNATIONAL CONFERENCE ON ELECTRONICS, ENERGY AND MEASUREMENT IC2EM'2023, NOVEMBER 28-29, 2023 MEDEA - ALGERIA



## PROVISORY PROGRAM



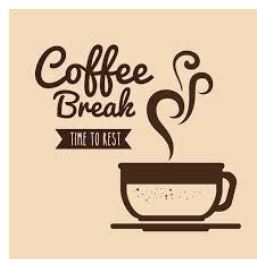
<b>Time</b>	<b>Designation</b>		<b>Location</b>
All day starting from 08:00 AM	Registration		Community
08:30—09:00	Opening Ceremony		Amphitheatre
09:00—10:00	Plenary Session 1		Virtual Amphitheatre
	Chair 1: Dr. Laroussi Kouider	Chair 2: Dr. Iratni Abdelhamid	
	Prof. Sertac Bayhan, Khalifa Ben Hamed Universiy, Doha, Qatar (Virtual) EV Integration In Hot Environment.		
10:00-10:15	Coffee break - 1		Community
10:15-11:45	Oral Sessions	Energy System 1: S1-Room 1 Energy System 2: S2-Room 2 Telecommunication 1: S3-Room 3 Power Electronics 1: S4-Room 4 Electronic Systems & Measurement 1: S5-Room 5	Rooms
11:45-13:15	Oral Sessions	Energy System 3: S6-Room 1 Telecommunication 2: S7-Room 3 Power Electronics 2: S8-Room 4 Instrumentation 1: S9-Room 2	Rooms
13:15-14:30	Lunch		
14:30—15:30	Plenary Session 2		Amphitheatre
	Chair 1: Prof. Remrame Youcef	Chair 2: Prof. Attari Mokhtar	
	Prof. Kanoun, Olfa, Chemnitz University of Technology, Germany Smart Wearables for Comprehensively Monitoring Hand Signs in Human-Machine Interaction		
15:30-15:45	Coffee break - 1		Community
15:30-16:00	Poster session		Community
16:00-17:30	Oral Sessions:	Energy System 4: S10-Room 1 Telecommunication 3: S11-Room 3 Power Electronics 3: S12-Room 4 Instrumentation 2: S13-Room 2	Rooms

<b>Time</b>	<b>Designation</b>		<b>Location</b>
08:45—09:45	<b>Plenary Session 1</b>		Virtual Amphitheatre
	<b>Chair 1: Prof. Tlemçani Abdelhalim</b>	<b>Chair 2: Prof Amel Abbadi</b>	
	Prof. Mokrani Lakhdar, Laghouat University, Algeria ( <b>Virtual</b> ) <b>Renewable Energy Systems: Control and Monitoring Issues &amp; Technology Trends and Challenges</b>		
09:45-10:00	Coffee break - 1		Community
10:00—11:00	<b>Plenary Session 2</b>		Virtual Amphitheatre
	<b>Chair 1: Prof Younes Chiba</b>	<b>Chair 2: Prof Henini Nouredine</b>	
	Prof. Frede Blaabjerg, Aalborg University, Denmark ( <b>Virtual</b> ) <b>Power Electronics Technology – Quo Vadis</b>		
11:00-12:00	Oral Sessions	Energy System 5: S14-Room 1 Telecommunication 4: S15-Room 3 Power Electronics 4: S16-Room 4 Electronics system & Measurement 2: S17-Room 2	Virtual Rooms
12:30-13:00	Lunch		
13:30-15:00	Oral Sessions	Energy System 6: S18-Room 1 Telecommunication 5: S19-Room 3 Power Electronics 5: S20-Room 4 Instrumentation 3: S21-Room 2	Virtual Rooms
15:00-15:15	Coffee break - 1		Community
15:15-16:15	Oral Sessions:	Energy System7: S22-Room1 Telecommunication 6: S23-Room3	Virtual Rooms
16:15-16:30	Closing Talk		Virtual Amphitheatre

## FIRST Day 29-11-2023

Time	Designation	Location
All day starting from 08:00 AM	Registration	Community
08:30—09:00	Opening Ceremony	Amphitheatre
09:00—10:00	<b>Plenary Session 1</b>	
	<b>Chair 1: Dr. Laroussi Kouider</b>	<b>Chair 2: Dr. Iratni Abdelhamid</b>
	Prof. Sertac Bayhan, Khalifa Ben Hamed University, Doha, Qatar ( <b>Virtual</b> ) <b>EV Integration In Hot Environment. Link: <a href="https://meet.google.com/ssh-igmn-imu">https://meet.google.com/ssh-igmn-imu</a></b>	
		Virtual Amphitheatre

**15:30-15:45**



**10:15-11:45**

<b>Oral Session 1 : 28/11/2023 S1 00 :00</b>		
<b>Energy Systems 1</b>		
<b>Room 1</b>		
<b>Session Chairs : Dr. Abdelkader Morsli &amp; Dr. Ahmed Medjber</b>		
ID	Authors	Titles
09	Hamed Kamel Zine*, KHOUDIR Abed	Design of high-performance control scheme for DFIG-based Wind Energy Conversion System supplies a MAS using Hysteresis and the m & r parameters model
104	Abderrahim SAKOUCHI*; Elhadj BOUNADJA; Abdelkader Djahbar	Nonlinear control via Backstepping for five-phase permanent magnet synchronous generator-based wind generation system
133	Said, Khoudiri*	Pre-Feasibility Study and Control for Offshore Wind Farm in the Algerian Coast
154	Debbache, Mohamed*; meziane, fares; Bekhti, Ahmed; Tata, Madjid	Design and sizing of wind blades based on generator parameters for small wind turbines for low wind regions

**Oral Session 2 : 28/11/2023 S2 00 :00****Energy Systems 2****Room 2****Session Chairs : Dr. Sofiane TCHOUKECH & Dr. Mohamed SOLTANE**

ID	Authors	Titles
61	kechida h abdelhak *; Gozim Djamel; TOUAL Belgacem	Management Stand-alone Hybrid Renewable Energy System Based on Wind and Solar with Battery storage
186	Fares Meziane*; Mohamed Debbache; ahmed bekhti	Assessing Offshore Wind Resource for Sustainable Energy and Hydrogen Production in the El Kala Coastal Region
207	Ghania Mohandkaci*; Khaled Tifoura ; Smain Berkane; Achour Mahrane.	Design and Implementation of an Energy Management System with Appliance Scheduling for a Solar Home Based on a Programmable Logic Controller
211	Fairouz Bakhouch; Leila Madani; Oussama Houhou*	Algerian potential of biodiesel production from vegetable oils: Jatropha Curcas and olive pomace feedstocks
216	Hammou TEBIBEL *	Techno-economic Analysis of Multi-Mega-Scale Off-Grid Photovoltaic-Hydrogen Production System

**Oral Session 3 : 28/11/2023 S3 00 :00****Telecommunication 1****Room 3****Session Chairs : Dr. Reda Kara & Dr Rabehi Abdelhalim**

ID	Authors	Titles
28	Yasmina BELAROUSSI *; Abdelkader Taibi ; Djabar Maafri ; Boumediene ZATOUT ; Sara Debiane; Lydia Chana	Effect of substrate resistivity on spiral inductor in radio frequency bands
103	Mohammed BOUTAA *; Djelloul Aissaoui; Abdelhalim CHAABANE; Hussein Attia	Printed Monopole Antenna Design for Early Brain Tumor Detection
105	Mohamed Benaissa ; Abdelhalim Chaabane; Djelloul Aissaoui; Hussein Attia	Dual-Band Slot Antenna for Miniaturized Biomedical Implants
107	Rachida Boulerbah ; Abdelhalim Chaabane ; Hussein Attia ; Djelloul Aissaoui	Breast Cancer Detection Using Circularly Polarized Printed UWB Antenna
73	Djihane Maadoud ; Abdelkrim Hamza ; Mohamed Becherif	Intelligent Transport Systems using High Altitude Platform Stations

**Oral Session 4 : 28/11/2023 S4 00 :00****Power Electronics and Drives 1****Room 4****Session Chairs : Dr. Amel Abbadi & Dr. Fethia HAMIDIA**

ID	Authors	Titles
14	Saad Chaouch*; Sami Kahla; Badreddine Babes; Nouredine Hamouda; Amar BOUTAGHANE; Mourad HASNI	PSFB DC-DC LCLC Resonant Converter Voltage and Current Modes Control Using Arduino-Mega
85	Hafsa Benmakhoulouf *; mahieddine hacil	Comparison Steady of single phase shift and Dual phase shift of isolated bidirectional dual Active-Bridge DC–DC Converter
120	Aicha Aissa-Bokhtache; Maamar Latroch; Assma Toulbia, Alla Eddine TOUBAL MAAMAR*; Mohamed Seghir Boucherit	Optimization of a Power Supply using 3 Types of Converters of a Discharge Lamp-electronic Ballast System for Water Purification
138	Nabil IFTISSEN*; Hamza MOKRANE; ABDELMALEK Samir; Ali Dali (CDER)	Model Predictive Voltage Control of Uninterruptible Power Supply With an Output RLC Filter
185	Haithem BOUKERDOUN*; Talha Abdelaziz; Salim Mohammed Benmerabet; Fayçal Chabni; Nahla Choual	Study of three different optimization algorithms to calculate the optimal switching angles for the SHEPWM modulation method.

**Oral Session 5 : 28/11/2023 S5 00 :00****Electronic Systems and Measurements 1****Room 5****Session Chairs : Prof Attari Mokhtar & Prof Bouhadda Mounir**

ID	Authors	Titles
38	Med Youghourta; Hamidou Ghilassi*; Hocine CHIKH-TOUAMI	Real time drones detection based on cameras and recent YOLO algorithm versions
59	Abdel wahhab Lourari*; Tarak BENKEDJOUH; Abdenour SOUALHI	Intelligent prognostics of bearings based on Adaptive Neuro Fuzzy Inference System, Wavelet packet decomposition and Sequential Backward Selection
111	Abdelhafid TOBBAL*; Bengherbia billel; Anis BOUZIANI; Youcef CHERIFI	Experimental study of a LoRa based wireless sensor network for low power localization in an outdoor environment
161	Salma Nait Bachir; Kaissa HAMOUIMECHE; Azzeddine NACER; ziani abderahmane; Bachir LEHOUIDJ; Hocine MOULAI*	Temporal parameters measurements for identification of electrical discharges in air and transformer mineral oil
167	Elaoua Abrar; Nadour Mohamed*; Cherroun Lakhmissi; ELASRI Abdelfattah	Real-Time People Counting System using YOLOv8 Object Detection

**11:45-13:30**

**Oral Session 10 : 28/11/2023 S10 00 :00**

**Energy Systems 4**

**Room1**

**Session Chairs : Dr. Nouredine Ould Charchali & Prof Moualdia Abdelhafid**

ID	Authors	Titles
51	Abdelhadi Sebhi*	Parameters Identification of Induction Motor Using the Slime Mould Algorithm
118	Benguelil Amina*; Pr. Brahim El Khalil HACHI	Solar Outdoor Light Study (design, dimensioning and photonic studies)
220	Abderraouf Boumassata*, Bousbia Chourouk and Souakri Achouak	Experimental validation of P&O and P&O-PI MPPT using RT-Lab under real atmospheric conditions
241	Ferial El Robrini*Badia Amrouche	Support Vector Regression for Predicting Intra-day Photovoltaic Generation in Algeria

**Oral Session 7 : 28/11/2023 S7 00 :00**

**Telecommunication 2**

**Room 3**

**Session Chairs : Dr. Reda Kara & Dr Bilal Ben Gharbia**

ID	Authors	Titles
60	Noussaiba Djefal *; Djamel Addou ; Hamza Kheddar ; Sid-Ahmed Selouani	Noise-Robust Speech Recognition: A Comparative Analysis of LSTM and CNN Approaches
93	Imane Beghoura*	Comparative analysis between a deep learning model and a region-based active contour model for pulmonary nodules segmentation on CT
119	Amina Hamza *; Djamel ADDOU; Hamza KHEDDAR	Machine Learning Approaches for Automated Detection and Classification of Dysarthria Severity
144	Abdelhamid ARCHI*,Hocine Ait Saadi and Slimane Mekaoui.	Applications of Deep Reinforcement Learning in Wireless Networks-A Recent Review
228	Afrah GUERIANI*; HAMZA KHEDDAR; Ahmed Cherif Mazari	Deep Reinforcement Learning for Intrusion Detection in IoT: A Survey

**Oral Session 8 : 28/11/2023 S8 00 :00****Power Electronics and Drives 2****Room 4****Session Chairs : Dr. Amel Abbadi & Dr. Fethia HAMIDIA**

ID	Authors	Titles
53	Chafea Stiti*; Kamel Kara; Mohamed Benrabah; Abdelhadi Aouaichia	Neural network model predictive control based on PSO approach: Applied to DC motor
56	Mohamed Lamine Ladjel*	Field Oriented Control with Improved PSO Algorithm for Open End Winding Induction Motor fed by SVM Four Level Dual Inverter
126	Hamid Khelfi*; Salim HAMOUDA ; Kamel KASSA BAGHDOUCHE; Samir Hamdani	Diagnosis of Dynamic Eccentricity Fault in Inverter-Fed Induction Machine Using Three Phase Stator Currents Intersection Signal
158	Saad Chouireb (uat)*	PMSM Drive Using Hybrid FOC-DTC Control Strategy for Electric Vehicle Application
236	Bilal MERABTANE*; Nouredine BENABADJI	Design and implementation of a multi connectivity datalogger using SD Card Storage for photovoltaic system monitoring

**Oral Session 9 : 28/11/2023 S9 00 :00****Instrumentation 1****Room 2****Session Chairs : Dr. Mohamed Rebiai & Dr Laroussi Kouider**

ID	Authors	Titles
07	Hamza Benyezza*; Mounir BOUHEDDA; Islam KRATBI ; Amdjed BOUKHTACHE; Kara Reda; Yehya ANIBA	Automated Fruits Inspection and Sorting Smart System for Industry 4.0 based on OpenCV and PLC
128	SAAD ABDERRAHMANE*; Kara Reda; Mounir BOUHEDDA	Digital Twins for Health Care monitor: Baby Incubator temperature and humidity monitoring
231	El habib Moussa*; Sofiane Tchoketch kebir ; Aissa Amrouche	Intelligent Transport System (ITS) for healthcare: Smart Ambulance.
242	Wissem KHARZI; Nacera MEZIANE; Malika KEDIR-TALHA	Towards the Exploration of dry Electrodes Performance in Bioimpedance Measurements based on The AD5933 Chip
251	Hachemi Cherrih*; Malika KEDIR-TALHA	FPGA implementation of an intelligent system control of the elbow prosthesis



13:15-14:30



14:30—15:30	<b>Plenary Session 2</b>		Amphitheatre
	<b>Chair 1: Prof. Remrame Youcef</b>	<b>Chair 2: Prof. Attari Mokhtar</b>	
	Prof. Kanoun, Olfa, Chemnitz University of Technology, Germany <b>Smart Wearables for Comprehensively Monitoring Hand Signs in Human-Machine Interaction.</b> Link : Link: <a href="https://meet.google.com/ssh-jgmn-imu">https://meet.google.com/ssh-jgmn-imu</a>		

15:30-15:45



**15:30-16:00**

**Poster Session : 28/11/2023 SP 00 :00**

**Energy Systems**

**Community Hall**

**Session Chairs : Prof Bachen Mourad & Prof Guemmana Mourloud & Prof. Mounir ZIRARI & Dr. Nouredine OULDCHERCHALI**

ID	Authors	Titles
11	Akil LOUMANI*; Mediani Ahmed; Foulanine Meriam; Braham Chaouch Wafa; Tigani Cherif; Larbi Ahmd Amine	Comprehensive Analysis of Microbiological and Physicochemical Characteristics of Solar-Dried Allium sativum L. in the Adrar Region: A Study of Quality and Safety Parameters
17	Yasmine Kacimi*; Benamar Cheknane; Abdelkader Hamid; Nouredine Said.	Heat flux distribution on the receiver of a linear Fresnel reflector designed for desalination
91	Mohamed Boufarh*; Rabah Touaibi	Energy and Exergy Analysis of Combined Cooling, Heating and Power System Using ORC and ejector refrigeration cycle
263	BRAHIM KEHILECHE*; Abdelhalim Tlemçani; Chiba younes, Nouredine Henini	Piezoelectric Energy Conversion and Its Applications: Sensors and Actuators
255	ZEMALI Zakaria; Nadji Hadroug; CHERROUN Lakhmissi*; Ahmed Hafaifa	Fault Diagnosis via Kalman Filters and ANFIS Classifiers for a Wind Turbine

**Poster Session : 28/11/2023 SP 00 :00**

**Telecommunication & Electronic Systems**

**Community Room**

**Session Chairs : Prof Henini Nouredine & Dr Adel Yahaoui & Dr. Smaine BENTOUATI & Dr Hamza Khaddar**

ID	Authors	Titles
129	Riadh BOUARROUDJ *; Feryel Souami ;Fatma Zohra Bellala	Reversible fragile watermarking for medical image authentication in the frequency domain
168	Kouadri Ali*; Benziane Ali; Abdelhalim Rabehi	Review of transform domain medical image watermarking techniques
212	Djabar Maafri *; Boumediene ZATOUT ; Yasmina BELAROUSSI; Mustapha Yagoub	Efficient RF Small-Signal Parasitic Parameters Extraction technique for the Advanced MOSFETs
213	Boumediene ZATOUT*; Djabar Maafri; KERAI Salim; Yasmina BELAROUSSI	An Efficient Extraction of the Bias Dependent Extrinsic Resistances of the HEMT GaN/SiC
218	Sid Ahmed Hamadouche* Ayoub Boutemedjet, Bouaraba Azzedine.	Infrared image stripe noise removal by solving first- and second-order total variation inverse problem
232	Bengherbia billel*; BENHAMMADA Abederrezzaq; Mounir BOUHEDDA; Abdelhafid TOBBAL; Maazouz Mohamed; Toubal Abdelmoughni	Base-station node implementation for real-time IoT/WSN Applications: Case of RSSI-based outdoor localisation

**Poster Session : 28/11/2023 SP 00 :00**

**Power Electronics and Drives**

**Community Room**

**Session Chairs : Prof Chiba Younes & Tlemçani Abdelhalim & Dr. Omar LABBADLIA & Dr. Omar LABBADLIA**

ID	Authors	Titles
75	Lemya DJAFER; Rachid TALEB*;Alla Eddine TOUBAL MAAMAR ; Fayçal Mehedi; Seyyid Ahmed MOSTEFAOUI; Hafidha REKMOUCHE	Analysis and Experimental Implementation of SHEPWM based on Newton-Raphson Algorithm on Three-phase Inverter using Dspace 1104
94	SOUMIA TOUAMI*; KRIM YAZID; MOHAMED MENAA	Control of Brushless Doubly-Fed Generator using complex coefficient PI regulators
141	Maamar Latroch*; Aissa bokhtache Aicha; TOUALBIA Asma Asma	A proposed empirical method of weighing matrices determination in LQ controller applied on an experimental mini quadrotor
248	Zakaria Charfi	A Comparison of Control Strategies for Passivity-Based VSI In Microgrids Between Conventional Droop Control and Droop Control with Two Integrators
250	Abderrahmane Ahmia*; Ahmed chaouki Megherbi; Salim Sbaa; Noureddine Bessous; Ahmed Chennana	Improvement of the MCKD process using EMD and feature mode decomposition under bearing damage in induction motors: comparison study
262	Abdelhalim Tlemçani*; Abdellah DERGHAL; DEGHBODJ Thamir.	Identifying Broken Rotor Bars in Squirrel Cage Induction Motors: Examination of Statistical Characteristics Derived from Start-Up Current Envelope

**16:00-17:30**

**Oral Session 6 : 28/11/2023 S6 00 :00**

**Energy Systems 3**

**Room1**

**Session Chairs : Dr. Zakaria TRIKI & Dr. Djamel Hassani**

ID	Authors	Titles
81	Fayçal Hadj Mihoub Sidi Moussa*	A Comparison Analysis Between Two and Three Levels Inverter to Grid-Connected Used the Photovoltaic System
84	Mujammal Ahmed Hasan*; abdelhafidh MA MOUALDIA; Ouahid BOUCHHIDA; Mohammed Abdulelah ALBASHERI	Upgrade Perturbation and Observation of MPPT strategy via Fuzzy logic Controller
102	Abdelatif TAKILALTE	Prediction of Daily Global Solar Radiation in All Types of Sky Based on Sunshine Duration
181	Fateh Attoui; Faycel Arbaoui; Mohamed Iarbi Saidi; Nadir boutasseta*; AMMAR Necaibia,	Photovoltaic Power Forecasting using AI techniques and LSTM Deep Learning Network in Southern West of Algeria

**Oral Session 11 : 28/11/2023 S3 00:00****Telecommunication 3****Room 3****Session Chairs : Dr. Wahiba MENASRI & Dr. Redha REBHI**

ID	Authors	Titles
02	Hocine CHIKH-TOUAMI *; Sofiane HACIANE ; Hamidou Ghilassi	Radio channel predicted model of deployed cellular network in Algiers city
30	Iyes Iabsis *; TEGUIG DJAMAL ; Nacerredine LASSAMI	Blind Cyclostationary Spectrum Sensing Technique Algorithm for Cognitive Radio Networks
98	Lekhmissi Harkati; Azzedine Bouaraba; Osama Dr Mahfoudia ; Ikram Khengaoui	Complex Medium Permittivity Retrieval Based on Curvature Calculation
40	FEDLAOUI LYNDIA *; Ahmed Prof Benallal; Mountassar MAAMOUN	A Novel Modified Improved Proportionate Fast NLMS Algorithm for Acoustic Echo Cancellation
127	khalissa charik*; Lebbal Mohamed Redha	All optical AND logic gate based on nonlinear Kerr effect

**Oral Session 12 : 28/11/2023 S12 00 :00****Power Electronics and Drives 3****Room 4****Session Chairs : Dr. Malika AMARI & Dr. Zouhir AMORANE**

ID	Authors	Titles
57	Ayoub Mansour BELHAMITI*; Tahar SEGHIER; Kouider Laroussi; Abdelhamid Rabhi; Mohammed Belkheiri	Stator Current Signal Analysing of Wind Turbine Generator For a Smart Fault Diagnosis Method
149	Fethia HAMIDIA*; amel abbadi; SKENDER Mohamed Redha; Abdelkader Morsli	MPPT based FPA control for PV Pumping System
188	Albasher Mohamed*	Improve lifespan of Battery energy storage in Remote area power system
254	ZEMALI Zakaria; CHERROUN Lakhmissi*; Nadji Hadroug; Ahmed Hafaifa	Intelligent Techniques employing LSTM and ANFIS Models for Fault Detection and Isolation in a Wind Turbine Machine
264	Yahiaoui Adel; Abdelhalim Tlemçani*; Abdellah kouzou	Identification of PV Module Parameters Considering Output Power

Oral Session 13 : 28/11/2023 S13 00 :00

Instrumentation 2

Room 2

Session Chairs : Dr. Hamza KHEDDAR & Dr. Mohamed Ould Zmirli

ID	Authors	Titles
33	Saadaoui Fatima*; Nawal CHEGGAGA; Nour El Houda Djabri	Optical Detection of UAVs Using Deep Convolutional Neural Networks
115	Oussama LAOUEDJ; Abderrahim Azzoune *; Azzedine Bouaraba	Silica Nanofiber-based Evanescent Optical Kerr Effect in Nonlinear Liquid Media
160	Abdelmalek GHOBRIINI; Abdessamed Belhakimi; Youcef Remram*	Design and Implementation of a Cost-effective IoT-enabled Multi-parameter System for Water Quality Monitoring in Aquaculture and Aquaponics
163	Abdessamed Belhakimi*; Abdelmalek GHOBRIINI; Youcef Remram	Development of automatic nutrient dosing system for hydroponics
175	Elmohri Mohamed Abdessalam*; Kara Reda; Mounir BOUHEDDA; BENGHERBIA Hocine; MANSEUR Serine; Abdelhafid TOBBAL	Study and Design a Low-Power Water Meter

*End of the First Day*

## Second Day

Time	Designation	Location	
08:45—09:45	<b>Plenary Session 1</b>		Virtual Amphitheatre
	Chair 1: Prof. Tlemçani Abdelhalim	Chair 2: Prof Amel Abbadi	
	Prof. Mokrani Lakhdar, Laghouat University, Algeria <b>Renewable Energy Systems: Control and Monitoring Issues &amp; Technology Trends and Challenges.</b> Link: <a href="https://meet.google.com/wen-uikc-prt">https://meet.google.com/wen-uikc-prt</a>		
09:45—10:45	<b>Plenary Session 2</b>		Virtual Amphitheatre
	Chair 1: Prof Younes Chiba	Chair 2: Prof Henini Nouredine	
	Prof. Frede Blaabjerg, Aalborg University, Denmark ( <b>Virtual</b> ) <b>Power Electronics Technology – Quo Vadis.</b> Link: <a href="https://meet.google.com/wen-uikc-prt">https://meet.google.com/wen-uikc-prt</a>		

**10:45-11:00**



**11:00-12:30****Oral Session 14 : 29/11/2023 S14 00:00****Energy Systems 5****Room1, Link : <https://meet.google.com/wov-iygt-tqm>****Session Chairs : Dr. Sofiane TCHOUKECH & Dr. Mohamed Redha SKENDER**

ID	Authors	Titles
48	Mekhaznia, Nadjib *; Khenfer, Riad	Impact of Training Algorithms on Faults Detection of PV panel
97	MEDKOUR, Maissa*; Laroussi, Kouider; TETA, Ali	DPC control for grid-tied inverter powered by PV system under change of parameters and load
106	REZKI, Mohamed*; HAMZA, HOUASSINE; GRICHE, Issam; BENSAID, Samir	Modeling and Sizing a battery for PV systems
140	Bouzidi, Belgacem Mohamed Nassim*	P&O, PSO and P&O-PSO algorithms based MPPT for solar PV under uniform radiation and partial shading condition
208	NACER, BOUDERRES; Djellad, Abdelhak*; CHIHEB, Sofiane; Logerais, Pierre-Olivier; bassemabdelhakim, hamdi	A Comprehensive Comparative Study and Optimization of MPPT Algorithms in a Standalone Photovoltaic Plant using Classical and Machine Learning Techniques
110	Zhour Saci*; Antar fatima zohra	Sizing and Techno-Economic analysis of a Photovoltaic Solar System for a Primary School using PVSYST

**Oral session 15 : 29/11/2023 S15 00:00****Telecommunication 4****Room 3, Link : <https://meet.google.com/wyu-yadd-gwo>****Session Chairs : Dr. Bilal Ben Gharbia & Dr. Mohamed Ould Zmirli**

ID	Authors	Title
20	BELABBAS, SOUMEYA*; Belabbas, Soumeya	Improved ASR system based on CNN-LSTM acoustic model for mobile voice
77	Noureddine, Khalid*; Kheddar, Hamza; Maazouz, Mohamed	Adversarial Example Detection Techniques in Speech Recognition Systems: A review
204	Djeffal, Noussaiba*; Kheddar, Hamza; Addou, Djamel; Mazari, Ahmed Cherif; Himeur, Yassine	Automatic Speech Recognition with BERT and CTC Transformers: A review
246	Tchoketch kebir, Sofiane*; BERRHAIL, Fouaz	State of the Art of Brain MRI Tissue Segmentation Techniques and Methods.
252	BENDJILLALI, Ridha Ilyas*; Bendelhoum, Mohammed Sofiane; Ali Abderrazak, TADJEDDINE ; Miloud, Kamline; Kamila, Frioui; Iliace, Arbaoui	Forest Fire Detection with Combined SVM and Deep CNN Approach
267	khirani, siham; Souahlia, Abdelkerim Dr; Rabehi, Abdelhalim*	Forest Fire Detection Using a Low Complex Convolutional Neural Network

**Oral Session 16 : 29/11/2023 S16 00:00****Power Electronics and Drivers 4**Room 4, Link : <https://meet.google.com/wen-uikc-prt>**Session Chairs : Dr. Malika AMARI & Dr. Zouhir AMORAN**

ID	Authors	Titles
123	SAIDI, FAYSSAL*; BOUNADJA, Elhadj; DJAHBAR, Abdelkader	A comparative analysis of SVM, Venturini, and PWM with three intervals modulation techniques for the control of an AC/AC three-phase matrix converter
130	Lamine , MEDEKHEL*; chouaib, labiod Kamel Srairi, Mohamed Benbouzid, Ridha Meneceur	Implementation of a Three-Phase Two-Level Inverter with Gate Driver Based on Bootstrap Technology
145	Hamidatou, Taha*; kouzou, Abdellah; KADDOURI, Ameer Moloud	A comparative study between CB-SPWM and CB-SVPWM control techniques for dual inverter fed open-end winding induction motor
169	Nouaoui, Tahar*; Dendouga, Abdelhakim; Bendaikha, Abdelmalik	Design and Tuning of Fuzzy Controller using Human Inspired Algorithm for Speed Control of PMSM
260	Khalida Mimoune	Experimental Validation of a Non-Linear Observer-Based State Feedback Controller for Induction Motor

**Oral Session 17 : 29/11/2023 S17 00:00****Electronic Systems and Measurements 2**Room 2, Link: <https://meet.google.com/wsp-ttsn-had>**Session Chairs : Prof Mounir Bouhadda & Dr. Mohamed Rebiai**

ID	Authors	Titles
50	Djellouli Younes* ARDJOUN Sid Ahmed El Mehdi, DENAI Mouloud, CHAFOUK Houcine.	Real-Time Implementation of the Luenberger Torque Observer for an Induction Motor
54	Boulahia Naila *; Walid Filali (CDTA); Hocine Dalila	$\beta$ -Ga2O3-based photodiode performances investigation: simulation study
164	Mounir Bensalem*; Ahmed Cheriet; Khaled Bekhouche	Low cost ECT based system for thickness measurement of metallic plates
183	Kaissa Hamouimeche; Ryad Haridi*; Selma Zenati; Hocine MOULAI; Ziani Abderahmane	Behavior of Impedance and Phase of mineral oil after successive discharges in power transformers
229	Amina Yahia*; Wahiba Menasri; DALILA CHERIFI; Abderrezak Gacemi	Performance Evaluation of Machine Learning Algorithms for Smart Irrigation Systems
237	Elasri Abdelfattah; CHERROUN Lakhmissi*; Nadour Mohamed	Mobile Robot Visual Navigation Systems using Optical Flow



**13:15-14:30**



**13:30-15:00**

**Oral Session 18 : 29/11/2023 S18 00:00**

**Energy Systems 6**

**Room1, Link : <https://meet.google.com/wov-iygt-tgm>**

**Session Chairs : Prof Moualdi Abdelhafid & Dr. Mohamed Redha SKENDER**

<b>ID</b>	<b>Authors</b>	<b>Titles</b>
6	BENZIADA Mohamed Abdelghani*; OUAIL Mohamed MAHMOUDI; Mohand Oulhadj; BERKOUK El Madjid,	A comparison between control methods of the Z-source inverter
16	Djillali, Menouer*, Tadjine Mohamed (Algeria) , Gouichiche Abdelmadjid (Algeria).	An adaptive gains sliding mode controller applied to wind turbine benchmark model under different faults
32	SELMA, Belkacem*; BOUNADJA, Elhadj; BELMADANI, Bachir; SELMA, Boumediene	Exploring the Potential of Synchronous Reluctance Generator in Grid-Connected Wind Energy Conversion Systems: A Comprehensive Feasibility Study and Control Analysis
247	TAIBI, Abdelhalim*; Kouider, Laroussi; Abdelkader, rouibah; HARTANI, Amine Mohamed	Enhanced Vdc Bus Stability for PV and Battery Systems through an Optimized FOPID Controller using a Bidirectional DC-DC Converter
266	Tadjine Katia; Ziani Rekioua Djamila; LOGERAIS Pierre-Olivier P.O.; Serir Chafiaa*; Rekioua Toufik; Mokrani Zahra	Renewable Photovoltaic/Wind system with battery storage for water pumping in a small-scale area

**Oral session 19 : 29/11/2023 S19 00:00****Telecommunication 6****Room 3, Link :** <https://meet.google.com/wyu-yadd-qwo>**Session Chairs : Dr. Hamza KHEDDAR & Dr. Wahiba MENASRI**

ID	Authors	Titles
10	Takhi, Imane*; mehallel, elhadji; Rabehi, Abdelhalim	Performance Analysis of Various Multicarrier Modulation Formats for 5G Wireless Networks
24	Sahnoune, Ahmed*; Berkani, Daoud; Elhadj, Zeraoulia	secure turbo code design based on chaotic interleavers
78	Madjidi, Hicham*; Laroussi, Toufik; Detouche, Nedjma	Percentile-based Estimator for Generalized Rayleigh CFAR Ship Detection in SAR Imagery
89	SAOUD, Bilal*; ZIREG, Tahar ; BOUAOUD, Idir	Routing protocols in VANET, Study and Evaluation
174	BABAGHAYOU, Messaoud*; CHAIB, Noureddine NC; Labraoui, Nabila; Maglaras, Leandros; Ferrag, Mohamed Amine	Static Radio Transmission Power-Changing in Fog Computing: The Quick Energy-Draining Case Problem

**Oral Session 20 : 29/11/2023 S20 00:00****Power Electronics and Drivers 5****Room 4, Link :** <https://meet.google.com/wen-uikc-prt>**Session Chairs : Prof. Mounir Alliche & Prof. Salam ABUDURA**

ID	Authors	Titles
19	HEDROUG, Mohamed Elamine; BDIRINA, EIkHansa ; GUESMI, Kamel*	Fuzzy Predictive Controller for Trajectory Tracking of Differential-Drive Mobile Robot
113	Faleh, Abdallah*; Abdelmoumen, Laib ; Abderraouf, Bouakkaz ; Mennai, Noussaiba	New Induction Motor Fault Detection Method at No-Load Level Employed to Start Diagnosis of Anomalies
135	IHADADENE, Mohamed Nadir; DJEDDI, Mounir*	Simulation of EMC Perturbations for Soft Starters using Hardware-in-the-Loop in the Verification and Validation Phase
139	Bouchareb, Narimane*; billel, Bengherbia; Yassine, Toumi; REBIAI, Mohamed; TOBBAL, Abdelhafid	Multichannel 1D-CNN and Hilbert transform based bearing fault classification
162	MENANI, karima*	Adaptive model reference and Sliding mode controllers for glucose regulation

Oral Session 21 : 29/11/2023 S9 00 :00

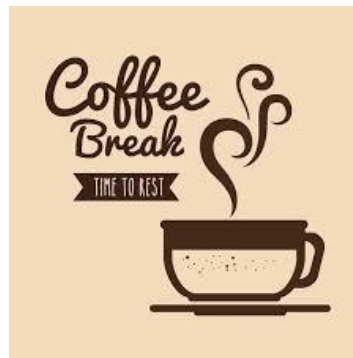
Instrumentation 3

Room 2. Link: <https://meet.google.com/wsp-ttsn-had>

Session Chairs : Dr. Mohamed DALI & Dr. Smaine BENTOUATI

ID	Authors	Titles
55	BELHADJI, Youcef*; BENSATTALAH, Aissa	Data Quality Assessment of an IoT system for Temperature Monitoring Using Statistical Approach
222	Taileb, Selma*; Loucif, Samia; Ould Khaoua, Mohamed	On the performance of Epidemic DTN routing on low-power and lossy networks
234	Boughedda , Abderrezak *; Latreche, Saida; Lakhdara, Maya ; Dalla Betta , Gian-Franco	A design modification to existing 3D-trench silicon sensor with enhanced radiation hardness
238	BENYAHIA, Ahmed *	Convolutional Neural Network Deep Learning Approach for Alzheimer Disease Classification

10:45-11:00



**15:15-16:45****Oral Session 22 : 29/11/2023 S22 00:00****Energy Systems 8****Room1, Link : <https://meet.google.com/wov-iygt-tgm>****Session Chairs : Dr. Mohamed SOLTANE & Dr. Omar LABBADLIA**

ID	Authors	Titles
22	BOUKOUNACHA, Ahmed Yassine*; Zegnini, Boubakeur; Yousfi, Belkacem; Seghier, Tahar	Thermal Conductivity in a Nanofluid Filled Transformer: Modeling by the Finite Element Method
122	LAIB, Abdelmoumen*; BOUDEBBOUZ, Omar	Impact of Distributed Generation on Voltage Profile in Distribution Systems: A Current Mismatch based Load Flow Analysis Approach
147	Touati, khaled omar *; Mohamed, Boudhiaf; Lakhdar, MAZOUZ; touati, zohra	Power Transmission line fault diagnosis using Discrete Wavelet Transform
253	Khelifi, Elmabrouk*; Brahami, Mohamed Nadjib ; Benalia, M'hamdi; Bousmaha, Imen Souhila ; Kellal, Cherif	Optimize Power Flow in Algeria's Adrar Power System Using BHO Algorithm
170	Charef Eddine AMRANI*; Haddad Salim; Rebai Asma	Modeling and Simulation of Wind Turbine System with MPPT for Optimal Power Extraction in Varying Load Conditions
230	Assala Bouguerra*; Abd Essalam Badoud; Saad Mekhilef; chouder aissa	Comparative analysis of perturb and observe, incremental conductance, and particle swarm optimization for maximum power point tracking under changing irradiance.

**Oral session 23 : 29/11/2023 S23 00:00****Telecommunication 7****Room 3, Link : <https://meet.google.com/wyu-yadd-gwo>****Session Chairs : Dr. Mohamed DALI & Dr. Smaine BENTOUATI**

ID	Authors	Titles
76	BAZI, Lynda*	All Optical 2R Regeneration based on optical parabolics pulses for high-bit-rate links
112	Bouaouina, Mohamed Salah*; Mohamed Redha, Lebbal	An improved delay time of optical Half-Adder applying nonlinear photonic crystals technology
201	Bouchehlal , Ahmed*; Abed, Ahcène; SAHLI, Salah Eddine ; Amrouche, Aissa; Bendoumia, Rédha	Design of low profile, high bandwidth circular patch Antenna at 28 GHz for Fifth generation wireless technology
210	Atef, Benhaoues*; Abdelhalim, Rabehi; Abdelkerim, Souahlia ; Nabil , Nouri	Low-complexity architecture for Cognitive radio

# *End of the Second Day*

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