

MINISTRY OF HIGHER EDUCATION & SCIENTIFIC RESEARCH

University of 20 Août 1955-Skikda

FACULTY of TECHNOLOGY

Electrical Engineering Department

Electrical Engineering Laboratory Skikda



Certificate of Participation

The Organizing Committee Chair of the

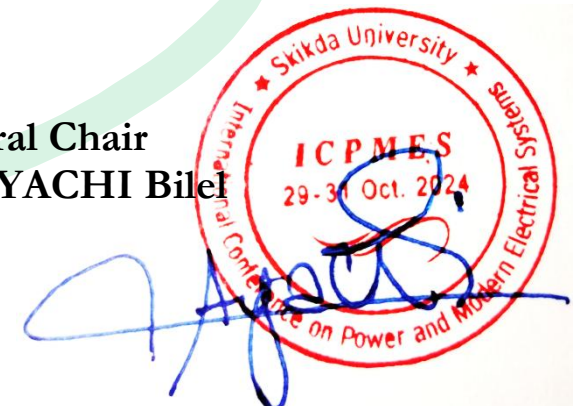
First International Conference on Power and Modern Electrical Systems

ICPMES 2024, October **29-31, 2024**, Skikda, **Algeria**

Certify That: **BELGASMI Ibtissem** Has participated to the conference with Paper
Entitled: **Analyzing the Impact of Pinning Sites on the Shape and Area of Hysteresis Loops
utilizing the Jiles-Atherton Model in Quasi-Static Regime**

Co-Authors: Ladghem chikouche Brahim, Hamimid Mourad

General Chair
Dr. AYACHI Bilel





First International Conference on Power and Modern Electrical Systems (ICPMES 2024)

October 29-31, 2024 in Skikda, Algeria



Plenary and Keynote Speakers

Title of presentation

Wireless EV charging: The game-changing potential



**Prof. Dr. Saad
MEKHILEF**

**Swinburne
University of
Technology,
Melbourne,
Australia**

Prof. Dr. Saad Mekhilef is an IEEE and IET Fellow. He is a Distinguished Professor at the School of Science, Computing and Engineering Technologies, Swinburne University of Technology, Melbourne, Australia, an Honorary Professor at the Department of Electrical Engineering, University of Malaya, and a distinguished visiting professor at the Institute of Sustainable Energy, University Tenaga Nasional, Malaysia. He authored and co-authored more than 800 publications in academic journals and proceedings, five books with more than 54,000 citations, an H-index of 113, and more than 85 Ph.D. students who graduated under his supervision. He serves as an editorial board member for many top journals, such as IEEE Transactions on Power Electronics, IEEE Open Journal of Industrial Electronics, IET Renewable Power Generation, E-Prime, Journal of Power Electronics, and International Journal of Circuit Theory and Applications. His research interests include Power Conversion Techniques, Control of Power Converters, Maximum Power Point Tracking (MPPT), Renewable Energy, and Energy Efficiency.

Title of presentation



**Prof. Dr.
Mohammed WADI**

**Sabahattin Zaim
University,
Istanbul, Turkey**

How High Temperatures Impact PV System Efficiency Case Study: Algeria

Prof. Dr. Mohammed Wadi is a highly accomplished electrical engineer with a rich background spanning academia and industry. He holds a BSc and MSc in Electrical Engineering from the Islamic University of Gaza, Palestine (2006 and 2012), and a Ph.D. in power systems from Yildiz Technical University, Istanbul, Turkey (2017). Presently, Mohammed wadi serves as an Assistant Professor at the department of Electrical & Electronics Engineering at Istanbul Sabahattin Zaim University in Istanbul, Turkey. In this capacity, he instructs various courses such as Circuit I & II, Logic Design, Microcontrollers, Embedded Systems, Power Systems Analysis, Energy Transmission Systems High Voltage Techniques, Protection in Power Systems, Renewable Energy and Power Systems Reliability.

His primary research interests encompass the reliability Assessment of Power Systems, Smart Grids, Renewable Energy, Fault Detection in Power Systems, Machine Learning and Fuzzy Control.

Title of presentation



**Prof. Dr. Adel
MERABBAT**

**Saint Mary's
University, Halifax,
Nova Scotia,
Canada**

Problem Formulation for Optimization: Case of a Network of Interconnected Microgrids

Dr. Adel Merabet received the B. Eng. degree in Automatic from the University of Baji Mokhtar, Annaba, Algeria, in 1998, the M.Sc. degree in Automatic and Applied Computer from Ecole Centrale de Nantes, Nantes, France, in 2002, and the Ph.D. degree in Engineering from the University of Quebec at Chicoutimi, Chicoutimi, Quebec, Canada, in 2007. He was a Postdoctoral Fellow, in 2007-2008, at Dalhousie University, Halifax, Nova Scotia, Canada. In 2008, he joined Saint Mary's University, Halifax, Canada, where he is currently a Professor with the Division of Engineering. During 2016–2017, he was a Visiting Academic with the Department of Sustainable and Renewable Energy Engineering, University of Sharjah, Sharjah, United Arab Emirates. In 2019, he was the recipient of the Tan Chin Tuan Exchange Fellowship in Engineering from Nanyang Technological University, Singapore. In 2021 and 2024, he was a Visiting Research Scientist with Department of Electrical Engineering, Khalifa University, Abu Dhabi, United Arab Emirates. He is a Senior Member of the Institute of Electrical and Electronics Engineers (IEEE). He is also a registered Professional Engineer in the Province of Nova Scotia, Canada. He has published more than 100 articles in proceedings, journals and book chapters. His research interests include renewable energy, energy management, microgrids, advanced control, electric drives, artificial intelligence, and smart grid.

Title of presentation

Electrical Energy Consumption in Algeria: A Survey, Some Controversial Issues and Power Quality Assessment



**Prof. Dr. Omar
BOUDEBBOUZ**

**20th August 1955
University, Skikda,
Algeria**

Prof. Dr. Omar BOUDEBBOUZ received his a State Engineer Degree in Electrical Engineering from the Badji Mokhtar University, Annaba, Algeria, the Magister's diploma and the Doctor degree in Electric Power System Modeling and simulation from the University of 20th August, 1955, Skikda, Algeria in 1990, 2000 and 2012 respectively. He worked in industry for about 7 years as joined Engineer – Researcher at petrochemical sites. He is currently Professor at the University of 20th August, 1955, Skikda. His research interests are in power quality, computer simulation of power systems, power conversion, optimal operation and planning of modern power systems.

Title of presentation

Towards Neutrosophic Logic in Modern Electrical Engineering



**Prof. Dr. Chellali
BENACHAIBA**

**Tahri Mohamed
University, Bechar**

Dr. Chellali BENACHAIBA He is a former University Professor, researcher, and trainer of Ph.D. Students in Artificial Intelligence. His research interests are artificial intelligence and renewable energies, control and optimization. He was an engineer at the national hydrocarbon company SONATRACH; Algeria. He was an engineer at Télé Diffusion d'Algérie, Algeria. He was a research Professor at the TAHRI Mohamed University of Béchar, Algeria. He was a guest artificial intelligence trainer at Universities, Algeria. He was visiting Professor at IREENA, IUT of SaintNazaire, University of Nantes, France. He was a guest artificial intelligence trainer at ENSAT School in Titouan, Morocco. He was a guest trainer in artificial intelligence at ENIS in Sfax, Tunisia. He is a speaker and trainer of Ph.D. Students on the implementation of artificial intelligence in intelligent control, renewable energies, intelligent optimization, Machine Learning and Deep Learning at Universities.

ALGERIAN DEMOCRATIC & PEOPLE'S REPUBLIC
MINISTRY OF HIGHER EDUCATION & SCIENTIFIC RESEARCH
UNIVERSITY 20 AOUT 1955-SKIKDA
FACULTY OF TECHNOLOGY
LES LABORATORY



First International Conference on Power and
Modern Electrical Systems (ICPMES 2024)
October 29-31, 2024 in Skikda, Algeria



CONFERENCE PROGRAM
1th International Conference on Power and
Modern Electrical Systems (ICPMES'2024),
29 - 31 Octobre 2024

First day

Tuesday, October 29, 2024

Location: Grand Lecture Hall - 08h00 – 12h30

(Link 1 : <https://meet.google.com/gws-ejke-cmj>)

08h00-09h00	Registration of participants	
Opening ceremony		
09h00-09h15	Opening by the Rector of the University, Pr. Toufik BOUFENDI	
09h15-09h30	Dean of Faculty Speech, Dr. Nasrine AMOUCHI	
09h30-09h45	Word from the Conference Chairman Dr. Bilel AYACHI	
09h45-10h00	Coffee Break	
Plenary Session /Keynote Speakers		
Session Chairs		
Pr. BOUDEBOUZ Omar		Dr. BOUKELKOUL Lahcen
Dr. LAIFA Abdelaziz		
10h00-10h40	Dr. Mohammed WADI (Turkey)	How High Temperatures Impact PV System Efficiency Case Study: Algeria
10h40-11h20	Dr. Saad MEKHILEF (Australia)	Wireless EV charging: The game-changing potential
11h20-12h00	Dr. Chellali BENACHAIBA (Algeria)	Towards Neutrosophic Logic in Modern Electrical Engineering
12h00-12h15	Debate and Discussions	
12h15-12h30	Lunch Break	

Program access link :

First day

Tuesday, October 29, 2024

Session 1 – Room 1 [Oral session]

(Topic 01) - Electrical Power Systems

Location : Grand Lecture Hall - 13h30 - 15h30 (Link 2 : <https://meet.google.com/ska-mybv-hoe>)

Session Chairs

Pr. LABED Djamel		Pr. BOUKADOUM Ahcène		Pr. BOUZEKRI Hassan	
Time	Name & Surname	Affiliation		Title of communication	
13h30-13h45 [ID-11]	Hassan Mana Ben Haoua Larbi Daouli, Boudjelal Dounia	Setif university		The Analytical Study of Passive and Active Filtering In a Low Voltage Electrical Network From The Point of View of Energy Quality	
14h15-14h30 [ID-121]	Issam Attoui, Nadir Fergani	URMM-CRTI Annaba, Algeria		Fault Detection and Classification in Rotating Machinery Using Time-Domain Features and ANFIS-PSO Algorithm	
13h45-14h00 [ID-27]	TE. Boukelia, A. Bourouis, S. Djimli	University of Jijel, Algeria		Techno-Economic Performance Analysis of a CSP Plant Utilizing Organic Rankine Cycle Under Algerian Climatic Conditions	
14h00-14h15 [ID-132]	Riad Bendib	University of 20 août 1955- Skikda, Algeria		Design of a sliding mode controller for festo Lab Process	
14h30-14h45 [ID-03] [Virtual]	Mohamed Zellagui, Adel Lasmari, Nasreddine Belbachir, Claude Ziad El-Bayeh	University of Batna 2, Algeria		A Techno-Economic Analysis for PV Distributed Generator Allocation in Medium-Voltage DC Electrical Distribution System	
14h45-15h00	Debate, Discussion and recommendation				
15h15-15h30	Coffee Break				

1st POSTER SESSION

Session Chairs

Dr. AMAROUAYACH Mohamed

Dr. LEKHCHINE Salima

Location : Conference Hall - 15h00-15h30

Oral presentation of posters ID-83, ID-103, ID-34, ID-97, ID-19, ID-33, ID-22 (See the details of the session in the appendix)

First day

Tuesday, October 29, 2024

Session 1 – Room 2 [Virtual session]

(Topic 02) - Electromagnetics and Electrical Machines Design &
(Topic 07) - Mechatronics

Location : Lecture Hall-1 - 13h30 - 15h30 (Link 3: <https://meet.google.com/ndz-kovw-mba>)

Session Chairs

Pr. MEDOUED Ammar		Dr. LEKHCHINE Salima	
Time	Name & Surname	Affiliation	Title of communication
13h30-13h45 [ID-37]	Ibtissem Belgasmi, Brahim Ladghem Chikouche, Mourad Hamimid	University of bordj bou-arreridj, Algeria	Analyzing the Impact of Pinning Sites on the Shape and Area of Hysteresis Loops utilizing the Jiles-Atherton Model in Quasi-Static Regime
13h45-14h00 [ID-77]	M.Kaouka, H. Azizi, B. yousefi	Université de djelfa, Algeria	Diagnostic des défauts statoriques d’une machine électrique par la technique de flux de fuite magnétique

13h00-14h15 [ID-09]	B. Dounia, M. Hassan	University of setif	Enhancing Power Quality with Series Active Filters: A Hysteresis Control Approach for Harmonic Mitigation in EMC systems
14h15-14h30 [ID-88]	A. Lamari, H. Bourouina, S. Khouni, Y. Maiza, M. Mektout	Higher Normal School, Bousaada, Algeria	Resonance Frequency Modulation of Piezoelectric Microbeam with Adatom Loads under Electric Potential for Advanced Sensing
14h30-14h45 [ID-70]	Senoussi hacene, bouzkri hacene	University of 20 août 1955- Skikda, Algeria	Comparaison entre le générateur asynchrone à double alimentation (DFIG) et générateur asynchrone à double alimentation sans balais (BDFIG) dans un système éolien
14h45-15h00	Debate, Discussion and recommendation		
15h00-15h30	Coffee Break		

1 st POSTER SESSION	
Session Chairs	
Dr. BOUKRA Tahar	Dr. BOUKHENOUFA Farouk
1st POSTER SESSION Location : Conference Hall - 15h00-15h30 Oral presentation of posters ID-113, ID-84, ID-111, ID-45, ID-35, ID-129 (See the details of the session in the appendix)	

First day Tuesday, October 29, 2024 Session 1 – Room 3 [Virtual session] (Topic 3) - Energy and Renewable Energy Applications Location: Lecture Hall-2 - 13h30 - 15h30 (Link 4: https://meet.google.com/ukx-dzxt-ojr)			
Session Chairs			
Pr. LALALOU Rachid		Dr. AMAROUAYACH Mohamed	
Time	Name & Surname	Affiliation	Title of communication
13h30-13h45 [ID-40]	Yousseuf Mouleloued, Kamel Kara, Aissa Chouder	Blida1 university, Algeria	Early Detection and Diagnosis of Faults in Photovoltaic Systems Using a Modified KNN Algorithm
13h45-14h00 [ID-42]	Yousseuf Mouleloued, Kamel Kara, Aissa Chouder	Blida1 university, Algeria	Impact of Classification Strategies on the Performance of machine learning Algorithms in PV System Fault Diagnosis
14h00-14h15 [ID-93]	Moussaab Belarbi, Leila Naceri	Ecole Nationale Polytechnique d’Oran-Maurice Audi, Algeria	Performance Optimization of RbGeI3-Based Perovskite Solar Cells with ZnS:In ETL and CBTS HTL: A Simulation Study
14h15-14h30 [ID-86]	Abdelaziz Belhait, Messaoud Louafi, Sihem Ghoudelbourk, Abdesselem Chikhi Ghoulemallah Boukhalfa	University Larbi Tebessi, Tebessa, Algeria	Comparative Analysis of STSMC and SMC Controls in DFIG-based wind energy conversion system
14h30-14h45 [ID-59]	Kouadria Mohamed Abdeldjabbar, Kouadria Selman, Bouzide Mohamed Amine, Saidi Nouredine	Abdelhamid Ibn Badis University Mostaganem, Algeria	Backstepping control for Doubly Fed Induction Generators system-based a Wind Turbine
14h45-15h00 [ID-24]	A. Yousfi, Y. Bot, F. Mehedi	University of Djilali Bounaâma, Khemis Milliana, Algeria	Optimization of Wind Energy Integration in Electrical Networks via UPFC Systems
15h00-15h30	Coffee Break		

1 st POSTER SESSION

Session Chairs	
Dr. BAHRI Ahmed	Dr. BOUNEB Djamila
1 st POSTER SESSION	
Location : Conference Hall - 15h00-15h30	
Oral presentation of posters ID-78- ID-127- ID-38- ID-118, ID-134, ID-31 (See the details of the session in the appendix)	

First day			
Tuesday, October 29, 2024			
Session 2 – Room 1 [Oral session]			
(Topic 3) - Energy and Renewable Energy Applications			
Location : Grand Lecture Hall - 15h30 –17h00 - (Link 2: https://meet.google.com/ska-mybv-hoe)			
Session Chairs			
Pr. HARROUZ Abdsselkader		Pr. BOUDEBOUZ Omar	
Pr. WADI Mohammed			
Time	Name & Surname	Affiliation	Title of communication
15h30-15h45 [ID-80]	Ahmed Bahri, Nabil Mezhoud, Bilel Ayachi, Farouk Boukhenoufa	Ghardaia University, Algeria	A fuzzy logic control of hybrid renewable energy system based on wind and solar with battery storage
15h45-16h00 [ID-126]	Mohamed KERIKEB	University of 20 août 1955- Skikda, Algeria	Novel Tendencies in Wind Energy Production : Progress, Development and challenges.
16h00-16h15 [ID-47]	Bencheikh Abdenmour, Ounissi Amor	University of Batna 2, Algeria	Etude de Sûreté de Fonctionnement d’une Alimentation Electrique Pour un Récepteur Industriel.
16h15-16h30 [ID-116]	K. Louabdia, R. Lalalou, O. Boudebbouz	University of 20 août 1955- Skikda, Algeria	Pitch Control for Variable-Speed Grid-Connected Aerodynamic Generator “Case of PMSG-Based Wind Turbine
16h30-16h45 [ID-95]	Abdesselem abdelmounaim, yahiaoui adel, abboud abir, chiba younes	University of Medea, Algeria	Using the HOMERPRO simulation program to study the power supply of a hybrid electrical system
16h45-17h00	Debate, Discussion and recommendation		

First day

Tuesday, October 29, 2024

Session 2 – Room 2 [Virtual session]

(Topic 04) - Power Conversion and Electronics

(Topic 05) - Automation and Intelligent Control

Location : Lecture Hall-1 - 15h30 - 17h00 (Link 3 : <https://meet.google.com/ndz-kovw-mba>)

Session Chairs			
Pr. AHMIDA Zahir		Dr. BOURAHALA Faycel	
Time	Name & Surname	Affiliation	Title of communication
15h30-15h45 [ID-26]	Djemâa Ben Othmane, Faiza Hadji, Bouzide Boussaha, Ali Benouadah	Université Badji-Mokhtar Annaba, Algeria	Analysis of Device Characteristics and Performance of MEH-PPV Polymer Light Emitting Diodes
15h45-16h00 [ID-46]	Fayçal Mehedi, Ismail Bouyakoub, Abdelkader Yousfi, Zakaria Reguieg, Fatiha Bouhadji, Lemya Djafer	Hassiba Benbouali University, chlef, Algeria	Enhanced Control of a Multiphase Induction Motor Supplied by a Matrix Converter Based on Super-Twisting Sliding Mode Control
16h00-16h15 [ID-67]	Fayçal Mehedi, Ismail Bouyakoub, Abdelkader	Hassiba Benbouali University, chlef, Algeria	High Performances of Five-Phase PMSM Speed Control using Third Order Sliding Mode Approach

	Yousfi, Rachid Taleb, Zakaria Reguieg, Fatiha Bouhadji		
16h15-16h30 [ID-14]	Abdelkader Benslimane Yamina Benslimane	Normal Higher School, Bechar, Algeria	Simulation of System Control for an Electric Irrigation Device.
16h30-16h45 [ID-131]	H. Laib, D. Sakri, S. E. Farhi. T. Bahi, N, Golea	Larbi Ben M’hidi University Oum El Bouaghi	Direct Power Control Based on Sliding Mode Strategy for Shunt Active Power Filter
16h45-17h00	Debate, Discussion and recommendation		

First day Tuesday, October 29, 2024 Session 2 – Room 3 [Virtual session] (Topic 03) - Energy and Renewable Energy Applications (Topic 07) - Other Location : Lecture Hall-2 - 15h30 - 17h00 (Link 4 : https://meet.google.com/ukx-dzxt-ojr)			
Session Chairs			
Pr. BOUZEKRI Hassan		Dr. MEZHOUD Nabil	
Time	Name & Surname	Affiliation	Title of communication
15h30-15h45 [ID-73]	Y. Bouroumeid, M. Jbilou, S. Bechekir, M. Arezki, EA. Ghaitaoui, BEK. Oulad Naoui.	Djilali Liabes University of Sidi Bel Abbes, Algeria	Enhancing Solar Energy Utilization: A Technical and Economic Analysis of Photovoltaic Integration in Algeria's Educational Facilities
15h45-16h00 [ID-58]	Abdallah Ben Abdelkader, Mohammed Amine Soumeur, Soumia Kail, Othmane Abdelkhalek	University of Tahri Mohammed, Bechar, Algeria	ANFIS-Based MPPT Control of BLDC Motor for Solar-Powered Water Pumping Systems with Battery Storage
16h00-16h15 [ID-43]	Youssef Mouleloued, Kamel Kara, Aissa Chouder	Blida1 University, Algeria	Optimization of Photovoltaic Module Parameters Using the Emperor Penguin Colony Algorithm
16h15-16h30 [ID-16]	Yacine Triki, Ali Bechouche Hamid Seddiki, Djaffar Ould Abdeslam	M’Hamed Bougara University, Boumerdes, Algeria	Enhancing Power Quality in Distributed Generation Systems with an Innovative ADALINE-Based Orthogonal Signal Generator
16h30-16h45 [ID-20]	N. Benyahya, H. Mazari, N. Benseddik, Z. Benamara, K. Ameer, A. Boumedsjed	Djilalil Liabes university, Sidi Bel Abbes, Algeria	Optimization of organic solar cells efficiency
16h45-17h00	Debate, Discussion and recommendation		

Second day

Wednesday, October 30, 2024

Location: Grand Lecture Hall - 08h30 – 10h30

(Link 1 : <https://meet.google.com/wcu-uahw-oxq>)

08h00-09h00	Registration of participants	
Keynote Speakers/ Session Plénière		
Session Chairs		
Dr. Wadi Mohammed		Pr. MEDOUED AMMAR
Dr. BENACHAIBA Chellali		
08h30-09h15	Pr. OMAR BOUDEBOUZ (Algeria)	Electrical Energy Consumption in Algeria: A Survey, Some Controversial Issues and Power Quality Assessment
09h15-10h00	Dr. Adel MERABBAT (Canada)	Problem Formulation for Optimization: Case of a Network of Interconnected Microgrids
10h00-10h15	Debate and Discussion	
10h15-10h30	Coffee Break	

1 st POSTER SESSION		
Session Chairs		
Dr. MEZHOUD Nabil	DR. LAIFA Abdelaziz	Pr. LALALOU Rachid
1 st POSTER SESSION		
Location : Conference Hall - 10h00-10h30		
Oral presentation of posters ID-57, ID-89, ID-96, ID-17, ID-39, ID-12, ID-124, ID-01, ID-92, ID-75, ID-99, ID-128		
(See the details of the session in the appendix)		

Session 1 – Room 1 [Oral session]

(Topic 03) - Energy and Renewable Energy Applications

Location : Grand Lecture Hall - 10h30 - 12h15 (Link 2: <https://meet.google.com/ncn-dmqh-srg>)

Session Chairs			
Pr. HARROUZ Abdelkader		Pr. LABED Djamed	Pr. LALALOU Rachid
Time	Name & Surname	Affiliation	Title of communication
10h30-10h45 [ID-74]	S. Djelamda, F. DjefafLIA, A. Nait-Merzoug, A. Harat O. Guellati	Mohamed Chérif Messaadia University	Nanostructured Polyaniline (PANI) Synthesis at Optimized Parameters and their Physical-Chemical Identification for Energy Storage Application
10h45-11h00 [ID-18]	Slimani Hassina, Chouhal Ouahiba, Beddiaf Yassine, Rafik Mahdaoui, Hamdi Roumaissa,Djahfa Salim	University of Khenchela Abbes Laghrou, Khenchela	Optimizing moving-average filter performance for wave filtering in photovoltaic systems using metaheuristic
11h00-11h15 [ID-65]	T. Fonghour, F. Bourahala, M. Rouamel	University of 20 août 1955- Skikda, Algeria	Enhanced results on H ∞ state estimation of static neural networks with time-varying delay
11h15-11h30 [ID-29]	Abdel Djabar Bouchaala, Ahcene Boukadoum, Ahmed A. Zaki Diab	University of 20 août 1955- Skikda, Algeria	Optimal sizing microgrid stand alone components of PV/WT/DG/BSSS using Grey wolf Optimizer chosen the case study :Skikda in Algeria
11h45-12h00 [ID-56]	Djedjiga Brai, Faycal Bourahala, Mohamed Rouamel, Ahmida Zahir	University of 20 Août 1955- Skikda, Algeria	Overview of Event-Triggered Control for a class of Large-Scale Systems Under Deception Attacks
12h00-12h15	Debate, Discussion and recommendation		
12h15-13h30	Lunch Break		

Second day
Wednesday, October 30, 2024

Session 1 – Room 2 [Virtual session]

(Topic 03) - Energy and Renewable Energy Applications &
(Topic 05) - Power Conversion and Electronics

Location : Lecture Hall-1 - 10h30 - 12h15 (Link 3 : <https://meet.google.com/rxt-hdye-oeg>)

Session Chairs

Dr. BAHRI Ahmed

Dr. DJOUBLIA Linda

Time	Name & Surname	Affiliation	Title of communication
10h30-10h45 [ID-08]	Mebarek. A. R, Merabet. L, Rahli. C, Saad. S	University Badji Mokhtar - Annaba, Algeria	Active Current Method Based Adaptive Linear Filter For Five-Level Neutral Point Clamped Shunt Active Power Filter
10h45-11h00 [ID-36]	N. Bouzid, K. Aksa, M.D. Mouss	Université Mostapha Benboulaïd - Batna 2, Algeria	Predicting Heating and Cooling Degree Days in Batna, Algeria: A Comparative Study of LSTM and FbProphet Models
11h00-11h15 [ID-54]	I. Redjaimia, S. Touahri, T. Boufendi	University of Constantine 1, Algeria	Optimizing the Integration of Photovoltaic Systems into Smart Grids through Advanced Energy Storage and Management Technologies
11h15-11h30 [ID-102]	Asma Benhemine, Hamza Tedjini, Cherif Benoudjafer, Imen Chaoufi	University Tahri Mohamed Bechar, Algeria	Performances of BLDC motors based direct matrix converter
11h30-11h45 [ID-28]	Oussama Sait, Samia Latreche, Hamza Khemlche, Mabrouk Khemliche	Ferhat abbas University Setif 1, Algeria	Enhanced faults detection and classification in photovoltaic generators using classical thresholding methods
11h45-12h00 [ID-32]	Oussama Sait, Samia Latreche, Hamza Khemlche, Mabrouk Khemliche	Ferhat Abbas University Setif 1, Algeria	Comprehensive simulation and optimization of photovoltaic system using proteus software for enhanced performance and faults detection
12h00-12h15	Debate, Discussion and recommendation		
12h15-13h30	Lunch Break		

Second day
Wednesday, October 30, 2024

Session 1 – Room 3 [Virtual session]

(Topic 02) - Electromagnetics and Electrical Machines Design
(Topic 7) – Mechatronics
(Topic 01) - Electrical Power Systems

Location : Lecture Hall-2 - 10h30 - 12h15 (Link 4 : <https://meet.google.com/iqy-umri-xas>)

Session Chairs

Pr. BOUDEBOUZ Omar

Dr. LOUABDIA Karima

Time	Name & Surname	Affiliation	Title of communication
10h30-10h45 [ID-60]	Omar Aissani, Nesserine Laribi, Fouad Inel	University of 20 août 1955- Skikda, Algeria	Advanced Kinematic Modeling and Visualization of Cable-Driven Parallel Robots with Cable Walk Consideration
10h45-11h00 [ID-79]	M. Y. Dennai, I. Chaib, H. Tedjini	University of Tahri Mohammed, Bechar, Algeria	Design and Simulation of a Grid-Connected PV Inverter Using Model Predictive Current Control and Maximum Power Point Tracking

11h00-11h15 [ID-44]	Farid Berrezek, Khaled khelil, Zemali Zakaria, Djaballah Hamzai	Souk ahras university, Algeria	Fault diagnosis based Classification - approach for rotating machines: Case of broken bars faults
11h15-11h30 [ID-41]	Abdelhaq Dahmani	Center university Nour El Bachir, El Bayadh, Algeria	Commande de la variation de vitesse d'un moteur asynchrone en boucle fermée avec un onduleur de type T de cinq niveaux
11h30-11h45 [ID-50]	Brahim Ayeb, Youcef Soufi, Djamel Ounnas, Dhaouadi Guiza	Echahid Cheikh Larbi Tebessi University- Tebessa, Algeria	A Novel Hybrid APSO-P&O Method for Efficient MPPT in Grid-Connected Photovoltaic System
11h45-12h00 [ID-51]	Brahim Ayeb, Youcef Soufi, Djamel Ounnas, Dhaouadi Guiza	Echahid Cheikh Larbi Tebessi University- Tebessa, Algeria	Advanced Fault Diagnosis of PV Systems Using Artificial Neural Network and Statistical Parameters
12h00-12h15	Debate, Discussion and recommendation		
12h15-13h30	Lunch Break		

Second day

Wednesday, October 30, 2024

Session 2 – Room 1 [Hybrid session]

(Topic 05) Automation and Intelligent Control

(Topic 04) - Power Conversion and Electronics

(Topic 01) - Electrical Power Systems

Location : Grand Lecture Hall

- 13h30 - 17h00 (Link 2 : <https://meet.google.com/ncn-dmqh-srg>)

Session Chairs					
Pr. AHMIDA ZAHIR		Pr. WADI Mohammed		Pr. ZANNIR Youcef	
Time	Name & Surname	Affiliation	Title of communication		
13h30-13h45 [ID-98]	M. Toumi, O. Boudebbouz	University of 20 août 1955-Skikda, Algeria	Harmonic Resonance Analysis in Unbalanced Three-Phase Systems Using Symmetrical Components		
13h45-14h00 [ID-85]	L. Djouablia, K. I. Ben Dahmane, K. Abdellouche, H. Zighem, S.Ayad	University of 20 août 1955-Skikda, Algeria	Design and optimization of an FTTH network (WDM-GPON) - Study of the link Skikda-Annaba -		
14h00-14h15 [Virtual] [ID-94]	Leila Naceri, Mousaab Belarbi	Ecole Nationale Polytechnique d’Oran, Algeria	Enhanced Performance of CIGS Solar Cells with CuSCN Hole Transport Layer: A SCAPS-1D Simulation Study		
14h15-14h30 [ID-114]	Farouk Boukhenoufa Nabil Ikhlef Tarik Hacib Nabil Mezhoud	University of 20 août 1955-Skikda, Algeria	Optimal design of a radial flux permanent magnet synchronous machine		
14h30-14h45 [Virtual] [ID-135]	Aissa Guesmia, B. Bouadjemi A. Zitouni, N. Saidia, M. Matougui	Abdelhamid Ibn Badis University, Mostaganem, Algeria.	Étude du premier principe des propriétés structurales, magnétiques et optoélectroniques de composé Ba2HoTaO6.		
14h45-15h00	Debate, Discussion and recommendation				
15h00-15h30	Coffee Break				
	2 ^{send} POSTER SESSION			Session Chairs	
	Location : Conference Hall - 15h00-15h15			Pr. LALALOU Rachid	
	Oral presentation of posters ID-125, ID-23, ID-15, ID-117, ID-105, ID-123			Dr. BOURAHALA FAYCEL	
	(See the details of the session in the appendix)			Dr. DJOUBLIA Linda	
Session Chairs					
Pr. BOUKADOUM Ahcèn		Dr. BENDIB Rriad		Dr. LAIFA Abdelaziz	
Time	Name & Surname	Affiliation	Title of communication		
15h30-15h45 [ID-48]	Nadjet Bououden, Ines Righi, Sabrina Aouaouda, Fayçal Bourahala	Souk ahras university, Algeria	Robust $\mathfrak{L}_2$ Proportional Integral Observer for discrete-time descriptor T-S Systems		

15h45-16h00 [Virtual] [ID-13]	Amani Sabrine Lakhdari Ibn Khaldoun Lefkaier, Ahmed Draoui, Zoulikha Hebboul	University of Laghouat	A numerical simulation and analysis of chalcogenide BaZrS3-based perovskite solar cells utilizing different electron transport materials
16h00-16h15 [ID-82]	Nabil Mezhoud, Ahmed Bahri, Bilel Ayachi, Farouk Boukhenoufa	University of 20 août 1955- Skikda, Algeria	Nature-Inspired Method For Energy Management Optimization And Optimal Control of Microgrid Impregnated With Renewable Energy Sources
16h15-16h30 [Virtual] [ID-110]	Lemita Ines, Chelli Zoubir, Lemita Abdallah, soulef mahieddine	University of Souk Ahras, Algeria	Performance Investigation of Grid-Connected DFIG using Integrated Shunt Active Power Filter
16h30-16h45	Debate, Discussion and recommendation		

Second day

Wednesday, October 30, 2024

Session 2 – Room 2 [Virtual session]

(Topic 04) - Power Conversion and Electronics & (Topic 05) Automation and Intelligent Control

Location : Lecture Hall-1 - 13h30 - 17h00 (Link 3: <https://meet.google.com/rxt-hdye-oeg>)

Session Chairs			
Dr. LACHORI Abderrazak			Dr. BOURAHALA Faycel
Time	Name & Surname	Affiliation	Title of the communication
13h30-13h45 [ID-120]	W. Chelia, A. Laouer, E. Mezaache	University of 20 août 1955-Skikda, Algeria	The Impact of Convective Boundary Conditions on Heat Transfer by Natural Convection in a Nanofluid-Filled Cavity
13h45-14h00 [ID-69]	B. Herissi, L. Herissi	Universite 8 mai 1945 Guelma, Algeria	Stabilization of Chaotic Systems using Fuzzy Logic Control
14h00-14h15 [ID-21]	Hicham Zaimen, Chaima Gherari, Said Touati, Ali Resig	Souk ahras university, Algeria	Current-Based Diagnosis Algorithm for Voltage Source Inverter Faults Applied to PMSM Control Systems
14h15-14h30 [ID-87]	Rachid Zaghdoudi	Research Centre in Industrial Technologies (CRTI)	Infrared Composite Defect Detection Using U-Net-Based Semantic Segmentation with Data Augmentation
14h30-14h45 [ID-62]	Mabrouk Dahane, Abdelkrim Benali, Hamza Tedjini	Nour El Bachir University Center, El Bayadh, Algeria	Design of optimal controller PID for DFIG-based windb energy conversion systems using Ant Colony Optimization
14h45- 15h00	Debate, Discussion and recommendation		
15h00-15h30	Coffee Break		
	2^{end} POSTER SESSION Location : Conference Hall - 15h00-15h15 Oral presentation of posters ID-55, ID-91, ID-101, ID-61, ID-115, 89 (See the details of the session in the appendix)		Session Chairs
			Dr. BOUKELKOUL Lahcen
			Dr. MECHOUD EI Arkam
Session Chairs Pr. BOUKADOUM Ahcèn Pr. LALALOU Rachid			
Time	Name & Surname	Affiliation	Title of communication
15h30-15h45 [ID-133]	Abla Bouguerne, Aziz Boukadoum, Tahar Bahi, Laatra Yousfi	Echahid Cheikh Larbi Tebessi University- Tebessa, Algeria	Fuzzy Logic Control of a Wind Energy Conversion System Based on DFIG Connected to Grid
15h45-16h00 [ID-10]	Ben Haoua Larbi Daouli, Mana Hassan	Setif university, Algeria	Compensation for Harmonics in a Three-Phase Electrical Network
16h00-16h15 [ID-04]	Samira boumous, Zouhir boumous, Hamou Nouri,	Souk ahras university, Algeria	Contribution of wind farms to the estimation of energy demand in microgrids

	Yacine Djeghader		
16h15-16h30 [ID-30]	Z. Boumous, S. Boumous, H. Belhouche, R. Y. Mahfoudi	Souk ahras university, Algeria	Investigation into the optimization of converter-based distributed generation (DG) operation under grid faults
16h30-16h45 [ID-104]	Soulef Mahiddine, Abdelghani djedi, Jalel Dib, Ababbsia houria, Inesse Lemita	University of Tebessa, Algeria	Estimation of State of Charge (SOC) of Lithium Batteries Using SMO
16h45-17h00	Debate, Discussion and recommendation		

Second day Wednesday, October 30, 2024 Session 2 – Room 3 [Virtual session] (Topic 01) - Energy and Renewable Energy Applications Location : Lecture Hall-2 - 13h30 - 15h30 (Link 4: https://meet.google.com/iqy-umri-xas)			
Session Chairs			
Pr. BOUZEKRI Hassan			Dr. BOUKRA TAHAR
Time	Name & Surname	Affiliation	Title of communication
13h30-13h45 [ID-63]	M. Arezki, B. Belabbas, T. Allaoui, Y. Bouroumeid, A. Mansouri	University of Tiaret, Algeria	Optimizing Photovoltaic System Design for Remote Schools in Algeria: A HOMER PRO Analysis
13h45-14h00 [ID-109]	A. Mahammedi, A. Kouzou, A. Hafaifa	University, Djelfa, Algeria	Control of three phase two-stage grid-connected photovoltaic system
14h00-14h15 [ID-68]	Mansouri Abderrezak, Kessairi Khadra, Bouguetaia tahar, Hendel Mounia	École Supérieure en Génie Électrique et Énergétique d'Oran (ESGEE), Algérie	High Voltage Insulation and Applications
14h15-14h30 [ID-31]	Aissa Guesmia, A. Zitouni, B. Bouadjemia, N.Saidia, M. Matougui	Abdelhamid Ibn Badis University, Mostaganem, Algeria.	Optoelectronic,Magnetic, Transport Properties and Dynamical stability of Double Perovskite Ba2XWO6 (X = Cr, Fe) based Tungsten forThermoelectric applications and Optical devices
14h30-15h00	Debate, Discussion and recommendation		
15h00-15h30	Coffee Break		
	2^{end} POSTER SESSION Location : Conference Hall - 15h00-15h30 Oral presentation of posters ID-119, ID-52, ID-122, ID-53, ID-81 (See the details of the session in the appendix)		Session Chairs
			Dr. BAHRI Ahmed
			Dr. AMAROUAYACH Mohamed
			Dr. LOUABDIA Karima

Third day
Thursday, October 31, 2024

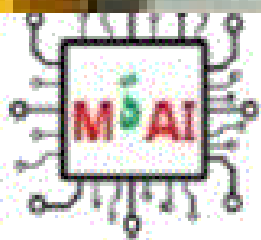
Electrical Engineering Department

2024 WORKSHOP *Conference*

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أكاديمية البساطة
للبحث العلمي و المهني

Estimation of the parameters of a solar PV module using metaheuristics



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BENACHAIBA

OUR SPECIAL TRAINER

- Modelling of solar PV module using a single-diode
- Metaheuristics PSO and Hybrid PSO
- Pratical example :
 - Understand and implement step by step the PSO and HPSO metaheuristics
 - How to implement step by step PSO and HPSO metaheuristics to extract PV module parameters from real datadet

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Please bring your Laptop

The researcher will benefit from the Matlab source codes
of the application and the course support



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20 August 1955 Skikda, University, Algeria

Third day

Thursday, October 31, 2024

Session: Panel of Experts

LOCATION: Grand Lecture Hall - 16h00 - 16h30

**Challenges of Energy Transition, Renewable Energy, Smart-Grids and
Modern Electrical Power Systems**

Invited experts

Prof. Dr. Mohammed WADI (Turkey)

Dr. Adel MERABET (Canada)

Prof. Dr. Saad MEKHILEF (Australia)

Prof. Dr. Omar BOUDEBBOUZ (Algeria)

Dr. Chellali BENACHAIBA (Algeria)

CONFERENCE CLOSING

Location : Grand Lecture Hall - 16h30-17h00

Specific access links for each session of the Conference

First day

ICPMES2024 - Link 1 : <https://meet.google.com/gws-ejke-cm>

ICPMES2024 - Link 2 : <https://meet.google.com/ska-mybv-hoe>

ICPMES2024 - Link 3 : <https://meet.google.com/ndz-kovw-mba>

ICPMES2024 - Link 4 : <https://meet.google.com/ukx-dzxt-ojr>

Second day

ICPMES2024 - Link 1 : <https://meet.google.com/wcu-uahw-oxq>

ICPMES2024 - Link 2 : <https://meet.google.com/ncn-dmgh-srg>

ICPMES2024 - Link 3 : <https://meet.google.com/rxt-hdye-oeg>

ICPMES2024 - Link 4 : <https://meet.google.com/iqy-umri-xas>

POSTERS SESSIONS

Location : Conference Hall

Tuesday, October 29, 2024 & Wednesday, October 30, 2024

Name & Surname	Affiliation	ID - Title
Tamaloussi Naima, Benzaid Lamia, Boulaghlem Souhila	University of 20 août 1955-Skikda, Algeria	84 - Methods for controlling the Flow rate of a Rotating Machine to save Energy
Faycal Bourahala, Mohamed Rouamel, Tarek Fonghour	University of 20 août 1955-Skikda, Algeria	55 - A New Robust MPPT- H_{∞} Control for Uncertain Photovoltaic Systems Based on the Takagi-Sugeno Fuzzy Model Approach
S. Lazghed, F. Annane	University of 20 août 1955-Skikda, Algeria	111 - First-principles calculations of HfCoBi half-Heusler compound : Stability and application as green energy resource
Rami Boumegoura, Riad Bendib, Kamel Menighed	University of 20 août 1955-Skikda, Algeria	39 - Reinforcement Learning-Enhanced Data-Driven Nonlinear Model Predictive Control for Distillation Columns with Simulation-Based Adaptation
Boudouaia Hafidaha, Bendib Riad, Zennir Youcef	University of 20 août 1955-Skikda, Algeria	17 - Enhancing Efficiency and Safety in Petrochemical Plants Using the STAMP-STPA Method
Mohamed Zouai, Lakhdar Aggoun, Yahya Chetouani	University of Setif 1, Setif Algeria	12 - Modeling of a distillation unit based on Sub Space Identification using N4SID algorithm
Nabil Mezhoud, Bilel Ayachi, Ahmed Bahri, Farouk Boukhenoufa	University of 20 août 1955-Skikda, Algeria	103 - Bio-inspired Approach based Optimal Placement and Sizing of Renewable Distributed Generators for Power Loss Reduction in Microgrid
S. Bouraghda, N. Mezhoud, R. Sadouni	University Center of Tipaza	83 - Power quality Improvement of a grid-connected doubly-fed induction generator using sliding mode control
F .Zouad, K. Kemih	University of 20 août 1955-Skikda, Algeria	91 - Control of Fractional Order Chaotic Delay System With LMI Predictive Control
Nouredine.bouaziz, Houcine.Bourouba, Leila.Boucerredj	University of May 8, 1945 – Guelma, Algeria	61 - Comparison between Method EMD and WT applied to handwritten signatures
S. Gamouri, S. M. Bousbia	University of 20 août 1955-Skikda, Algeria	96 - Intelligent classification of electrocardiogram signal using unscented Kalman Filter based Multi Layer Perceptron Neural Network
Khaled Merabet	University of 20 août 1955-Skikda, Algeria	19 - A Hybrid Daily Wind Speed Prediction Models using the Empirical Mode Decomposition
K. Chebli, R.Lalalou	University of 20 août 1955-Skikda, Algeria	15 - Contribution to the modelling and control of hybrid Excitation Synchronous Machine (HESM)
Yassine Soukkou, Hicham Khebbache	Research Center in Industrial Technologies CRTI, Algeria	57 - Finite-Time Command Filter-Based Adaptive Backstepping Control Scheme for Uncertain Nonlinear High-Order Strict-Feedback Systems
Abdel Djabar Bouchaala, Ahcene Boukadoum	University of 20 août 1955-Skikda, Algeria	34 - Operation and Energy management system of the microgrid component the PV/WT/BSS/DG.
Y. Benettayeb, A. Benbouali , T. Tahri, B.Alouache	Hassiba Benbouali University of Chlef, Algeria	89 - Numerical Simulation of Sloped Absorber Surface Effects on Solar Chimney Power Plant Performance

Bouloukza Ibtissam, Ladaycia Hania, Senani Fawzi, Rahab abderezzak	University of 20 août 1955-Skikda, Algeria	78 - Artificial Intelligence-Based MPPT Controllers and Power Quality Performance in Grid-Connected Photovoltaic Systems: A Comparative Study under Variable Conditions
Khaled Sahraoui, Rachid Lalalou, Fateh Attoui, Nadir Fergani	University of 20 août 1955-Skikda, Algeria	38 - Optimisation MPPT par logique floue pour éoliennes à base de PMSG a grande puissance et convertisseurs multiniveaux
A. Debbah, R. Klaiaia , A. Kerboua	ENSTI Annaba, Algeria	45 - NMPC control of a reeducation orthosis used to improve sit to stand movement
Nafir Nourreddine	University of 20 août 1955-Skikda, Algeria	117 - Energy Efficient Sleep Awake Aware (EESAA) Intelligent Sensor Network Routing Protocol
Laour Idris Boukadoum Ahcene Mezhoud Nabil	University of 20 août 1955-Skikda, Algeria	113 - A Case Study on the Effect of Pole Offset on the Output Parameters of a BLDC Motor
A. BOUZERIBA	University of Jijel, Algeria	124 - A fuzzy adaptive control scheme for projective synchronization of uncertain incommensurate fractional-order chaotic systems with actuator nonlinearities
A. Otmani, M. Bouabaz H. Omeiri	University of 20 août 1955-Skikda, Algeria	01 - Fuzzy logic and multiple regression analysis for Estimating constructions projects costs
Bilel Bouchaour El-Hadi Guechi Zineb Khoualdia Rahma Tarfa	University of 20 août 1955-Skikda, Algeria	92 - A Comparative Performance Analysis of a Sliding Mode Control and a PD Control for a 6 Degrees of Freedom Manipulator Robot
Aloui Ishak, Kachaou Youcef, Bidi Manel	University of constantine 1, Algeria	23 - Investigating the impact of integrating decentralized production (PV system) on Power Losses in the distribution network.
Rahma Tarfa, Zineb Khoualdia , Adlene Ramdane, Abderrazek Lachouri, Bilel Bouchaour	University of 20 août 1955-Skikda, Algeria	101 - Open Circuit Fault Detection for DC-DC Boost Converter Using Fuzzy Logic Approach
Rahma Tarfa Abderrazek Lachouri Adlene Ramdane	University of 20 août 1955-Skikda, Algeria	125 - Fault diagnosis for 3 level DC-DC Boost Converter
Benzaid Lamia, Naima Tamaloussi, Toufik Sebbagh, Souhila Bouleghlem	University of 20 août 1955-Skikda, Algeria	75 - Contribution à la surveillance de l'état de santé d'un moteur diesel
N. Mekimah, A.Boukadoum, O.Boudebbouz	University of 20 août 1955-Skikda, Algeria	97 - Utilizing the SSA Algorithm to Optimize a Stand-Alone Hybrid PV/Wind/Diesel/Battery System with Renewable Fraction (RF), Total Annual Cost (TAC), Loss of Power Supply Probability (LPSP)
Boualleg khadidja	University of 20 août 1955-Skikda, Algeria	119 - Fabricate the photovoltaic solar cells based of chalcopyrite materials
Boulaghlem Souhila, Tamaloussi Naima	University of 20 août 1955-Skikda, Algeria	105 - Improving the performance of a hydraulic power station
Hafid Meghsel, Salima Lekhchine, Tahar Boukra	University August 20, 1955 Skikda	118 - Autonomous photovoltaic system with storage managed by modified fuzzy logic.

Saber KARED Zahir Ahmida, Elarkam Mechhoud	University of 20 août 1955-Skikda, Algeria	129 - Attitude Control of Unmanned Small-Scaled Based on H_{∞} Optimal Control.
Nadia Mahsar, Salim Boulkhessaim	University of 20 août 1955-Skikda, Algeria	52 - Solar cells modeling with wxAMPS: a comprehensive overview
Nadia Mahsar, Salim Boulkhessaim	University of 20 août 1955-Skikda, Algeria	53 - Si/Li-inactive systems for enhancing energy storage in Li-Ion batteries
Salima Lekhchine Bahî Tahar, Amira Lakhdara, Rayane Leulmi	University of 20 août 1955-Skikda, Algeria	127 - Optimal Approaches for the Management of Wind Energy Conversion Systems
N. Mezhoud S. Bouraghda B. Ayachi F. boukhenoufa	University of 20 août 1955-Skikda, Algeria	122 - Optimal Placement and Sizing of Distributed Generators in Distribution Networks using Swarm Intelligence
B. Aliche, A. Saouli	Mentouri Brothers University of Constantine, Algeria	99 - Simulation of SPR multilayers detector response based on Aluminum Nano-particle intended for hydrogen gas sensing
Mahfoudi Rayane yasmine, Boumous Zouhir, Boumous Samira	Souk-ahras university, Algeria	35 - Application d'un contrôleur PID avec algorithme sinus-cosinus pour la déviation de fréquence d'un système électrique interconnecté à 2 zones
H. Ladaycia, I. Bouloukza, A. Rahab, F. Senani	University of 20 août 1955-Skikda, Algeria	123 - Enhancing Photovoltaic System Efficiency through AI-Based Optimization Techniques
Abdelhamid Henchiri	University of 20 août 1955-Skikda, Algeria	128 - Battery Energy Storage Management in a Photovoltaic System Optimized
Aissa Guesmia, B. Bouadjemi A. Zitouni, N. Saidia, M. Matougui	Abdelhamid Ibn Badis University, Mostaganem, Algeria.	31 - Optoelectronic,Magnetic, Transport Properties and Dynamical stability of Double Perovskite Ba2XWO6 (X = Cr, Fe) based Tungsten forThermoelectric
Kachaou.Youcef, Aloui.Ishak, Bidi.Manel	University of constantine 1, Algeria	22 - Improving the Efficiency of the Distribution Network by integrating Renewable Energy Sources in the presence of Electric Vehicle Charging Stations Using particle swarm optimization
Y. Benettayeb, A. Benbouali, T. Tahri, B.Alouache	Hassiba Benbouali University of Chlef	89 - Numerical Simulation of Sloped Absorber Surface Effects on Solar Chimney Power Plant Performance
R. Leulmi, S. Lekhchine, A. Medoued	University of 20 août 1955-Skikda, Algeria	33 – Evaluation of Sub-Synchronous Oscillation in a Wind Farm
Amel Benzaid , Rafik Djemili	University of 20 août 1955-Skikda, Algeria	81 - Deriving Heart Rate from Vowel Sound Signals
Meriem. Bousebsi, Ammar. Medoued, Lotfi. Saidi	University of 20 août 1955-Skikda, Algeria	134 - Kalman filter-based prognostic approach for High-speed shaft bearing failure for wind turbine generation to estimate the degradation of remaining useful life
Metatla Hassina Chouit Hanifa	University of 20 août 1955-Skikda, Algeria	115 - Identification et évaluation des risques liées au système de filtration à gaz -SEC PECO-modèle 70 (Terminal de Skikda).