

The **1st** International Conference  
on Advances in Electronics,  
Control and Computer  
Technologies.

October 25<sup>th</sup> - 26<sup>th</sup>, 2023  
Mascara, Algeria



**ICAECCT**

Department of Electrical Engineering  
Faculty of Sciences and Technology  
MUSTAPHA STAMBOULI University

PROGRAM  
SCHEDULE  
ICAECCT'23



# Scientific Committee Chairs

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University Mustapha Stambouli  
of Mascara. Algeria

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of Mascara. Algeria

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University Mustapha Stambouli  
of Mascara, Algeria

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University Mustapha Stambouli  
of Mascara, Algeria

Dr. Abdelhak ZOUGGARET  
University Mustapha Stambouli  
of Mascara, Algeria

Dr. Mokhtar BESSEGHIER  
University Mustapha Stambouli  
of Mascara, Algeria

Dr. Youcef Islam DJILANI KOBIBI  
University Mustapha Stambouli  
of Mascara, Algeria



# ICAECCT 2023

## ABOUT

The ICAECCT is the first international Conference on Advances in Electronics, Control and Computer Technology, organized by the faculty of Sciences and technology, Mustapha Stambouli University of Mascara, Algeria.

This conference aims to bring all prominent scientists, researchers, innovators, inventors, and industrial practitioners to exchange and share experiences and research results on automatics, electronics, Telecommunications and biomedical engineering.

The ICAECCT'23 includes variety topics related to the: control systems, robotics and automation, electronics and its applications, telecommunications, biomedical engineering and High Voltage Engineering.

For the first edition of the ICAECCT'23 will be a hybrid conference that will run fully in-person and fully virtually.

## CONFERENCE TOPICS

**CONTROL SYSTEMS, ROBOTICS AND AUTOMATION**

**ELECTRONICS AND ITS APPLICATIONS**

**TELECOMMUNICATIONS**

**BIOMEDICAL ENGINEERING**

**HIGH VOLTAGE ENGINEERING AND APPLICATIONS**

## HONORARY PRESIDENTS

President

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Vice Rector for External Relations, Cooperation, Animation, Communication and Scientific Events

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Interim Dean of the Faculty of Sciences and Technology

## CONFERENCE PRESIDENT

Dr. Samir GHOUALI

University Mustapha Stambouli of Mascara, Algeria

# 25 October 2023

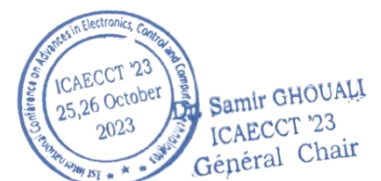
08:30 - 17:00	<b>CONFERENCE REGISTRATION AND CUSTOMER RELATIONS</b>	
08:30 - 09:00	<b>WELCOMING ATTENDEES</b>	
09:00 - 09:20	NATIONAL ANTHEM <span style="float: right;">النشيد الوطني</span>	
	RECITATION OF VERSES FROM THE HOLY QURAN <span style="float: right;">تلاوة آيات من القرآن الكريم</span>	
09:20 - 10:00	<b>OPENING CEREMONY</b>  <b>Mr. Farid Mohamedi</b> WALI de Mascara  <b>Prof. Abed BOUADI</b> Rector of Mustapha Stambouli University, Mascara, Algeria  Honorary Co-President  <b>Prof. Rabah KHENATA</b> Vice Rector for External Relations, Cooperation, Animation, Communication and Scientific Events  Honorary Co-President  <b>Dr. Amaria BEKHTI-SIAD</b> Interim Dean of the Faculty of Sciences and Technology  Conference Chair  <b>Dr. Samir GHOUALI</b> Associate Professor, Faculty of Sciences and Technology, Mustapha Stambouli University Mascara Algeria	
10:20 - 10:40	<b>P L E N A R Y</b>	Prof. Mohamed Benaoumeur Senouci University of Southern Denmark (PRESENTIAL) <b>BRINGING THE POWER OF AI TO THE INTERNET OF THINGS</b>
10:40 - 11:00		Prof. Miloud Rezkallah Senior Researcher / Project Manager CR2IE   Energy Intelligence Research and Innovation Center Associate Professor; School of Higher Technology (ETS), Canada (PRESENTIAL) <b>CHALLENGES AND IMPLEMENTATION OF DECENTRALIZED SMART ENERGY SYSTEMS FOR REMOTE SITES IN CANADA</b>
11:00 - 11:20		Prof. Mustapha HATTI Research Director - UDES/EPST-CDER (PRESENTIAL) <b>SMART CITIES: CONCEPTS AND CONDITIONS OF SUCCESS</b>
11:20 - 11:40		Dr. Michael Onyema EDEH Head of Department, Mathematics and Computer Science at Coal City University, Nigeria (VIRTUAL) <b>Cybersecurity implication of Mobile Banking</b>
11:40 - 12:00		Prof. Kamil Hussein EMAD Doctor of Engineering, Professor of Mechanical Engineering at Al-Furat Al- Awsat Technical University - Iraq (VIRTUAL)
12:00 - 14:00		



## FACE TO FACE CONFERENCE ORAL SESSION (Physical)

### ROOM A: Control Systems, Robotics and Automation

<b>Session Chairmen</b>	<b>Prof. Miloud REZKALLAH</b> Senior Researcher/Project Manager at CR2IE   Energy Intelligence Research and Innovation Center Associate Professor; School of Higher Technology (ETS), Canada <b>Dr. Djamel Eddine CHAOUCH</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Ahmed LARBAOUI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria					
	<b>ID</b>					
14:00- 14:15	<b>55</b>	Modeling a Hybrid Compensation System Using Robust GPC Control with a Recurrent Neural Network to Compensate for Powers in a Transmission Line <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">Participant</td> <td>Abdelkrim BOUANANE <span style="float: right; font-size: small;">Dr. Moulay Taher University Saida</span></td> </tr> <tr> <td>Co-authors</td> <td>NERZIOU MADANI, RAOUTI DRISS, YAHIAOUI MERZOUG</td> </tr> </table>	Participant	Abdelkrim BOUANANE <span style="float: right; font-size: small;">Dr. Moulay Taher University Saida</span>	Co-authors	NERZIOU MADANI, RAOUTI DRISS, YAHIAOUI MERZOUG
Participant	Abdelkrim BOUANANE <span style="float: right; font-size: small;">Dr. Moulay Taher University Saida</span>					
Co-authors	NERZIOU MADANI, RAOUTI DRISS, YAHIAOUI MERZOUG					
14:15- 14:30	<b>71</b>	Study the Influence of Emotions on Language Identification from Speech <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">Participant</td> <td>Houari HORKOUS <span style="float: right; font-size: small;">Ecole National Polytechnique</span></td> </tr> <tr> <td>Co-authors</td> <td></td> </tr> </table>	Participant	Houari HORKOUS <span style="float: right; font-size: small;">Ecole National Polytechnique</span>	Co-authors	
Participant	Houari HORKOUS <span style="float: right; font-size: small;">Ecole National Polytechnique</span>					
Co-authors						
14:30- 14:45	<b>72</b>	Passivity based control of a two-link flexible manipulator <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">Participant</td> <td>Adel BELHERAZEM <span style="float: right; font-size: small;">University of sciences and technologies of Oran</span></td> </tr> <tr> <td>Co-authors</td> <td>Zakaria BELLAHCENE, Abdelmalek LAIDANI</td> </tr> </table>	Participant	Adel BELHERAZEM <span style="float: right; font-size: small;">University of sciences and technologies of Oran</span>	Co-authors	Zakaria BELLAHCENE, Abdelmalek LAIDANI
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Co-authors	Zakaria BELLAHCENE, Abdelmalek LAIDANI					
14:45- 15:00	<b>73</b>	Robust Adaptive Control of Remotely Operated Underwater Vehicle (ROV) for Dam Inspection <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">Participant</td> <td>Zakaria BELLAHCENE <span style="float: right; font-size: small;">University of sciences and technology of Oran</span></td> </tr> <tr> <td>Co-authors</td> <td>ADEL BELHERAZEM, Abdelmalek LAIDANI, Mohammed BOUHAMIDA</td> </tr> </table>	Participant	Zakaria BELLAHCENE <span style="float: right; font-size: small;">University of sciences and technology of Oran</span>	Co-authors	ADEL BELHERAZEM, Abdelmalek LAIDANI, Mohammed BOUHAMIDA
Participant	Zakaria BELLAHCENE <span style="float: right; font-size: small;">University of sciences and technology of Oran</span>					
Co-authors	ADEL BELHERAZEM, Abdelmalek LAIDANI, Mohammed BOUHAMIDA					
15:00- 15:15	<b>75</b>	Photovoltaic Generator Analysis based on Maximum Power Point Tracking with DC/DC Converter for Motor Pump Applications <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">Participant</td> <td>Fatima MOULAY <span style="float: right; font-size: small;">University of Technology Djilali Liabes of Sidi bel abbes</span></td> </tr> <tr> <td>Co-authors</td> <td>HABBATI ASSIA, OUKLI MIMOUNA</td> </tr> </table>	Participant	Fatima MOULAY <span style="float: right; font-size: small;">University of Technology Djilali Liabes of Sidi bel abbes</span>	Co-authors	HABBATI ASSIA, OUKLI MIMOUNA
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Co-authors	HABBATI ASSIA, OUKLI MIMOUNA					
15:15- 16:15	Poster session 1 & coffee break					
16:15- 16:30	<b>302</b>	Telemetries forecasting: A preventive approach for satellite operations, diagnostic and monitoring <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">Participant</td> <td>Ali KADDOURI <span style="float: right; font-size: small;">Algerian Space Agency</span></td> </tr> <tr> <td>Co-authors</td> <td>Saiah Bekkar, Djelloul Saiah</td> </tr> </table>	Participant	Ali KADDOURI <span style="float: right; font-size: small;">Algerian Space Agency</span>	Co-authors	Saiah Bekkar, Djelloul Saiah
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Co-authors	Saiah Bekkar, Djelloul Saiah					
16:30- 16:45	<b>78</b>	Energy Management System Enhancement for Electric Vehicle Application <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%;">Participant</td> <td>Ibrahim Farouk BOUGUENNA <span style="float: right; font-size: small;">University Mustapha Stambouli of Mascara</span></td> </tr> <tr> <td>Co-authors</td> <td>Abdelghani ZABEL, Ahmed TAHOUR, Mohammed Benmadani DEBBAT, Mohamed AMRI</td> </tr> </table>	Participant	Ibrahim Farouk BOUGUENNA <span style="float: right; font-size: small;">University Mustapha Stambouli of Mascara</span>	Co-authors	Abdelghani ZABEL, Ahmed TAHOUR, Mohammed Benmadani DEBBAT, Mohamed AMRI
Participant	Ibrahim Farouk BOUGUENNA <span style="float: right; font-size: small;">University Mustapha Stambouli of Mascara</span>					
Co-authors	Abdelghani ZABEL, Ahmed TAHOUR, Mohammed Benmadani DEBBAT, Mohamed AMRI					



## ROOM B: Electronics and its Applications

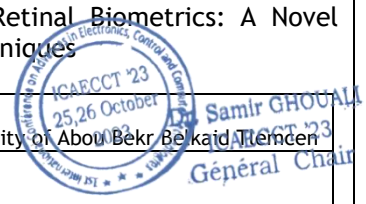
Session Chairmen	<b>Prof. Mustapha HATTI</b> Research Director - UDES/EPST-CDER <b>Dr. Mourad HEBALI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Hocine Abdelhak AZZEDDINE</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Abdelkader MAACHOU</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria		
	<b>ID</b>		
14:00- 14:15	<b>50</b>	Optimization of Technological Parameters Process of Mechanically Stacked Si/Ge Solar Cell for High Performance	
		Participant	Kheira AMEUR University Djillali Liabes of Sidi Bel Abbes
		Co-authors	Nadia BENSEDDIK, Halima MAZARI, Kheira OUARI, Zineb BENAMARA
14:15- 14:30	<b>156</b>	Effective MPPT Technique for Wind Energy Conversion System	
		Participant	Mohamed KAOUANE Faculty of technology - UMBB
		Co-authors	Akkila BOUKHELIFA
14:30- 14:45	<b>166</b>	Small Size, Big Impact: CubeSat Imaging with COTS Hardware	
		Participant	Mohammed amine ZAFRANE University of Science and Technologies of Oran
		Co-authors	AHMED RAMZI HOUALEF, AHMED TAHIR
14:45- 15:00	<b>51</b>	Forest Firefighting Using Drone and Artificial Intelligence	
		Participant	Ibrahim Farouk BOUGUENNA University Mustapha Stambouli of Mascara
		Co-authors	Zolikha DAHNOUN
15:00- 15:15	<b>161</b>	Closed Loop Cuk Converter Modeling for Photovoltaic Conversion System	
		Participant	Mohamed Kaouane Faculty of technology - UMBB
		Co-authors	Akkila BOUKHELIFA
15:15- 16:15	<b>Poster session 1 &amp; coffee break</b>		
16:15- 16:30	<b>123</b>	Spontaneous Electric Polarization and Photovoltaic Properties of Stephanite for Thin-Film Solar Celle: A First-Principles Investigation	
		Participant	Naouel CHELIL University Mustapha Stambouli of Mascara
		Co-authors	Mohammed SAHNOUN
16:30- 16:45	<b>177</b>	Study and development of a pseudo-random number generator on FPGA	
		Participant	Omar Medjadj University Mustapha Stambouli of Mascara
		Co-authors	Benaoumeur IBARI, Mourad HEBALI, Rezali BAGHDADI, Mohammed EL-Amine BEYOUR, Hocine Abdelhak AZZEDDINE
16:45- 17:00	<b>196</b>	Study the Electrical Characteristics of a Schottky Diode Based Au/n-type InN/InP at Different Frequencies	
		Participant	Abdelkader BAGHDAD BEY University Mustapha Stambouli of Mascara
		Co-authors	A. TALBI, M. A. BENAMARA, Z. BENAMARA, F. DUCROQUET

## ROOM C: Telecommunications and its Applications

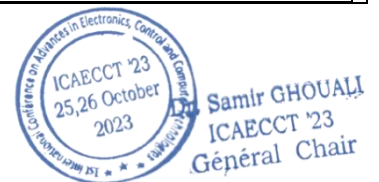
Session Chairmen		<b>Prof. Mohamed Benaoumeur Senouci</b> University of Southern Denmark <b>Dr. Mohamed Larbi TAYEBI TAYEBI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Mokhtar BESSEGHIER</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Mouweffeq BOUREGAA</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Fouad KHERBOUCHE</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria					
		ID					
14:00- 14:15	14	Electromagnetic Optimization of Bandpass Cross-Coupled Filter for mobile Communications <table border="1" style="width: 100%;"> <tr> <td>Participant</td> <td>Lamia SENASLI Laboratory of Electronics, Advanced Signal Processing and Microwave</td> </tr> <tr> <td>Co-authors</td> <td>MEHDI DAMOU, NOUR EL HOUDA SARA SENASLI, CHETIOUI MOHAMMED GOUNI SLIMANE, ABDELHAKIM BOUDKHIL</td> </tr> </table>		Participant	Lamia SENASLI Laboratory of Electronics, Advanced Signal Processing and Microwave	Co-authors	MEHDI DAMOU, NOUR EL HOUDA SARA SENASLI, CHETIOUI MOHAMMED GOUNI SLIMANE, ABDELHAKIM BOUDKHIL
Participant	Lamia SENASLI Laboratory of Electronics, Advanced Signal Processing and Microwave						
Co-authors	MEHDI DAMOU, NOUR EL HOUDA SARA SENASLI, CHETIOUI MOHAMMED GOUNI SLIMANE, ABDELHAKIM BOUDKHIL						
14:15- 14:30	256	Preamble Design for Channel Estimation in FBMC/OQAM systems <table border="1" style="width: 100%;"> <tr> <td>Participant</td> <td>Ahmed Bouzidi DJEBBAR Djillali Liabes University, Sidi-Bel-Abbes</td> </tr> <tr> <td>Co-authors</td> <td>DAHMANE REBOUH, MOKHTAR BESSEGHIER</td> </tr> </table>		Participant	Ahmed Bouzidi DJEBBAR Djillali Liabes University, Sidi-Bel-Abbes	Co-authors	DAHMANE REBOUH, MOKHTAR BESSEGHIER
Participant	Ahmed Bouzidi DJEBBAR Djillali Liabes University, Sidi-Bel-Abbes						
Co-authors	DAHMANE REBOUH, MOKHTAR BESSEGHIER						
14:30- 14:45	19	Design of a Filter Based on Direct Coupled Resonators Using the Coupling Matrix Technique <table border="1" style="width: 100%;"> <tr> <td>Participant</td> <td>Mehdi DAMOU Laboratory of Electronics, Advanced Signal Processing and Microwave</td> </tr> <tr> <td>Co-authors</td> <td>GOUNI SLIMANE, BOURAS MAROUA, CHETIOUI MOHAMMED, BOUDLHIL ANDELHAKIM, NOURI KELTOUMA</td> </tr> </table>		Participant	Mehdi DAMOU Laboratory of Electronics, Advanced Signal Processing and Microwave	Co-authors	GOUNI SLIMANE, BOURAS MAROUA, CHETIOUI MOHAMMED, BOUDLHIL ANDELHAKIM, NOURI KELTOUMA
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Co-authors	GOUNI SLIMANE, BOURAS MAROUA, CHETIOUI MOHAMMED, BOUDLHIL ANDELHAKIM, NOURI KELTOUMA						
14:45- 15:00	108	Optimization of Pedestrian Mobility Management in 5G NR Network based on Spectrum Sensing and NLMS Algorithm <table border="1" style="width: 100%;"> <tr> <td>Participant</td> <td>Zineb ZIANI USTO-MB University, Oran</td> </tr> <tr> <td>Co-authors</td> <td>MOHAMMED HICHAM HACHEMI, MILOUD BENCHEHIMA, IKRAM SARI MOHAMMED, FARAH SABRI, BOUABDELLA RAHMANI</td> </tr> </table>		Participant	Zineb ZIANI USTO-MB University, Oran	Co-authors	MOHAMMED HICHAM HACHEMI, MILOUD BENCHEHIMA, IKRAM SARI MOHAMMED, FARAH SABRI, BOUABDELLA RAHMANI
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Co-authors	MOHAMMED HICHAM HACHEMI, MILOUD BENCHEHIMA, IKRAM SARI MOHAMMED, FARAH SABRI, BOUABDELLA RAHMANI						
15:00- 15:15	143	Miniaturization of a Low-Cost Dual Band Antenna for C Band Applications <table border="1" style="width: 100%;"> <tr> <td>Participant</td> <td>Abdellatif BERKAT Abou Bakr Belkaid University-Tlemcen</td> </tr> <tr> <td>Co-authors</td> <td>Zeyneb BERKAT, Mohamed LATRACH</td> </tr> </table>		Participant	Abdellatif BERKAT Abou Bakr Belkaid University-Tlemcen	Co-authors	Zeyneb BERKAT, Mohamed LATRACH
Participant	Abdellatif BERKAT Abou Bakr Belkaid University-Tlemcen						
Co-authors	Zeyneb BERKAT, Mohamed LATRACH						

15:15- 16:15		Poster session 1 & coffee break	
16:15- 16:30	169	Design and Analysis Frequency Reconfigurable Multiband Patch Antenna for 5G Networks and Beyond	
		Participant	REFSI Ismahane USTO-MB University, Oran
		Co-authors	MILOUD BENCHEHIMA, MOHAMMED HICHAM HACHEMI, BOUABDELLA RAHMANI
16:45- 17:00	167	Enhanced Mobility Management on Vehicular Communication System in 5G New Radio Wireless Networks	
		Participant	Bahmed BABA OU SMAIL USTO-MB University, Oran
		Co-authors	MOHAMMED HICHAM HACHEMI, MILOUD BENCHEHIMA, MOHAMMED EL-KHALLIL BELHADJ, MEHDI ABDELHAK AND BOUABDELLA RAHMANI

ROOM D: Biomedical Engineering			
Session Chairmen	<b>Dr. Khadidja GOUZI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Nabila HAMLIL</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Abdelkader HORCH</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. MOHAMMED SEGHIR GUELLIL</b> Faculty SEG, University Mustapha Stambouli of Mascara, Algeria		
	ID		
14:00- 14:15	151	Multimodal MRI-Based Alzheimer's disease Classification Using CNN	
		Participant	HOURIA Latifa University of Blida 1
		Co-authors	LATIFA HOURIA, ASMAE MAMA ZAIR, ASSIA BOUZOUAD CHERFA, YAZID CHERFA, NOUREDDINE BELKHAMSA
14:15- 14:30	33	LSTM for epileptic disease recognition	
		Participant	Ghezala CHEKHMANE University of Abou Bekr Belkaid Tlemcen
		Co-authors	RADHWANE BENALI
14:30- 14:45	65	Secure and Accurate Identity Verification through Retinal Biometrics: A Novel Approach with Isodata and Entropic Thresholding Techniques	
		Participant	Aicha MOKHTARI University of Abou Bekr Belkaid Tlemcen
		Co-authors	HADJ SLIMANE ZINE EDDINE



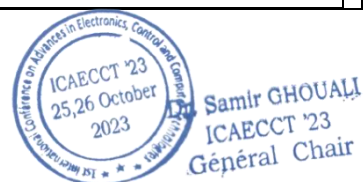
14:45- 15:00	24	Blood Product Prediction using Supervised Machine Learning	
		Participant	Amel YKHLEF National Polytechnic School of Oran
		Co-authors	LABRI NADJLA SELMA, BRAHAMI MENOUER
15:00- 15:15	150	Advancing MRI-Based Tumor Detection and Classification in Brain Images: A Comprehensive Framework Utilizing Image Processing and Machine Learning with MATLAB GUI Integration	
		Participant	Abdallah OUMSALEM Hassiba Ben Bouali University of Chlef, Algeria
		Co-authors	Yamina BOUREZIG
15:15- 16:15	Poster session 1 & coffee break		
16:15- 16:30	136	Medical Image Registration Using Local Feature Points & Genetic Search	
		Participant	Fatiha MESKINE Djillali Liabes University of Sidi-Bel-Abbes
		Co-authors	Oussama MEZOUAR
16:30- 16:45	193	Machine Learning for Optimizing Diabetes Prediction: A Comparative Analysis	
		Participant	Mohamed AMMARA University Mustapha Stambouli of Mascara
		Co-authors	Mokhtar BESSEGHIER
16:45- 17:00	142	Study and simulation of biosensors based AlGaIn/GaN MOS-HEMTs for specific detection of biomolecules	
		Participant	Abdellah BOUGUENNA University of Sciences & Technology of Oran (USTO-MB)
		Co-authors	DRISS BOUGUENNA, AMINE BOUDGHENE STAMBOULI
17:00- 17:15	38	New hybrid FCM-ABC algorithm for Brain MRI segmentation	
		Participant	Boumediene Ghaouti GHAZI University Mustapha Stambouli of Mascara
		Co-authors	BOUDJELAL MEFTAH





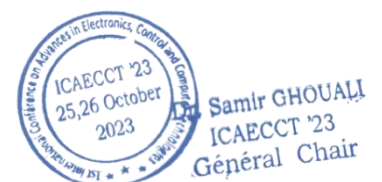
# CONFERENCE POSTER SESSION 1

Session Chairman	<b>Dr. Mokhtar BESSEGHIER</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Menouer BENNAOUM</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Radia MADJIDI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria	
ID		
84	Design of a New Direct Vector Control Using Synergetic Theory for Five-Phase Induction Motor	
	Participant	Fayçal MEHEDI Hassiba Benbouali University, Chlef
	Co-authors	ISMAIL BOUYAKOUB, LEMYA DJAFER, NEZLI LAZHARI, DJAMEL BOUDANA
112	A competitive dual axis solar tracker system	
	Participant	Ghalem Kamel Ghanem Higher School of Energetic and Electrical Engineering, Oran
	Co-authors	BELAIDI IKHLAS, ANTA KAWTHER, BENOUAR ALI, AHMED BACHA MOHAMED REDA
117	Optimal choice of weightings functions for synthesis a robust $H^\infty$ controller based on Loop -Shaping using Genetics Algorithms	
	Participant	Djamel eddine GHOURAF National Polytechnic School- Oran
	Co-authors	NACERI ABDELLATIF
126	Design of a robust nonlinear surface sliding mode controller for a quadrotor helicopter	
	Participant	Naima BOUHABZA Université Blida1
	Co-authors	KARA KAMEL
158	Algerian Database Under Development for Automatic Emotion Recognition	
	Participant	Zineddine S. KAHHOUL University of Mohamed Khider Biskra
	Co-authors	SELMA BOUTIBA, HABIBA DAHMANI, NADJIBA TERKI, MOHAMED L. TIAR, ABIR BETKA, ZAYED FERHAT, RIYAD BARKA
178	Real time control of a flight simulator	
	Participant	Sadek NEKROUF University Mustapha Stambouli of Mascara
	Co-authors	SOUFYANE CHEKROUN, KHATIR TABTI
175	Application of fuzzy logic to the control of an industrial 3D Crane	
	Participant	Fatima AFFANE University Mustapha Stambouli of Mascara
	Co-authors	M.ZAREB, A. KHEDIM, M. ALQUDAMI
183	Sliding Mode Controller with a Neuro-Fuzzy Optimized Network (STFIS) for Robotic Manipulator Trajectory Tracking	
	Participant	Djamel Eddine CHAOUCH University Mustapha Stambouli of Mascara
	Co-authors	AHMED LARBAOUI, HOCINE ABDELHAK AZZEDINE



184	Application Of Direct and Indirect Adaptive Controller Neural Network Based on Rbf Nn for Temperature Control of Electric Resistance	
	Participant	Benyekhlef KADA University Mustapha Stambouli of Mascara
	Co-authors	DJAMEL EDDINE CHAOUCH, ABDELKADER ELKEBIR
250	Applied the different Direct Torque control on the IM	
	Participant	Moulay Idriss CHERGUI University Mustapha Stambouli of Mascara
	Co-authors	ABDELHAQ LAOUFI, SOUFYANE CHEKROUN
301	Real-time implementation of single-phase inverter for photovoltaic system based on DC/DC and DC/AC stages	
	Participant	Abdelkader EL KEBIR University Mustapha Stambouli of Mascara
	Co-authors	HAFIDA BELHADJ
400	Design of a Fly back converter using TL494 control circuit for a photovoltaic system	
	Participant	HAFIDA BELHADJ University Mustapha Stambouli of Mascara
	Co-authors	Abdelkader EL KEBIR
251	Morphology influence of the donor and acceptor molecules of the active layer on the response parameters of organic photovoltaic cells OPVCs	
	Participant	Mohamed Benamar SIAD University Mustapha Stambouli of Mascara
	Co-authors	Y. MOUCHAAL, A. KHELIL, J.C. BERNEDE
96	Image Transmission Through OFDM System	
	Participant	Fatiha MESKINE Djillali Liabes University, Sidi Bel Abbas
	Co-authors	Amina DJIR, Brahim DEHRI
190	Deforestation detection using NRCS features extracted from multi dates SAR images	
	Participant	Abdelkader Horch University Mustapha Stambouli of Mascara
	Co-authors	IMANE MAHFOUF, MOKHTAR BESSEGHIER, HOCINE ABDELHAK AZZEDDINE, ABDERAHMANE LOUNI
310	Detection of Sleep Apnea Using Machine Learning Algorithms Based on The ECG Signal	
	Participant	Leila RIZOUG University Mustapha Stambouli of Mascara
	Co-authors	ISMAHENE BAADJA, NORA BELHAJ, ABDELKADER HORCH, ABDERRAHMANE LOUNI
176	Application of Artificial Neural Network (ANN) to Predict the Electrical Properties of 4H-SiC Schottky Diodes	
	Participant	Mohammed El-Amine BEYOUR University Mustapha Stambouli of Mascara
	Co-authors	MOURAD HEBALI, BENOUMEUR IBARI, OMAR MEDJADJ, REZALI BAGHDADI, ABDELKADER MAACHOU, HOCINE ABDELHAK AZZEDDINE, MENAOUER BENNAOUM

186	Advances in Power Sources and Power Electronic Converters for Multi-Source Electric Vehicles	
	Participant	Khaled BOUHADEF University Mustapha Stambouli of Mascara
	Co-authors	DJAMEL EDDINE CHAOUCH, HOCINE ABDELHAK AZZEDINE
139	Dual-Band Planar Antenna Design with Complementary Metamaterial Resonators for 5G systems	
	Participant	Nour El Houda BOUKHLIF University Mustapha Stambouli of Mascara
	Co-authors	SAMIR GHOUALI, ABDEFETTAH MIRAOUI
187	Exploring the Security Landscape Internet of Things	
	Participant	Hadjer BOUKHLIF University Mustapha Stambouli of Mascara
	Co-authors	MOUWEFREQ BOUREGAA, MOHAMMED MOULAY
194	Wireless Technology in Medical Applications: State of the Art, Challenges, and Opportunities	
	Participant	Abderrahmane BENHALIMA University Mustapha Stambouli of Mascara
	Co-authors	BENZERGA FELLAH, SAMIR GHOUALI
185	Revolutionizing Diabetic Retinopathy Detection: A Comprehensive Review of AI Approaches	
	Participant	Imane MAHFOUF University Mustapha Stambouli of Mascara
	Co-authors	ABDELKADER HORCH, BOUALEM MERABET
197	Optimizing Chromatic Dispersion in Fiber with Air-Silica Microstructured (FMAS) for Advanced Optical Telecommunications	
	Participant	Mohammed DEBBAL University Mustapha Stambouli of Mascara
	Co-authors	MOUWEFREQ BOUREGAA, MOHAMMED CHAMSE EDDINE OUADAH, HICHAM CHIKH-BLED
405	The role of formants and subglottal resonance frequencies for emphatic feature identification in Arabic speech	
	Participant	Abderrahmane LOUNI University Mustapha Stambouli of Mascara
	Co-authors	LEILA RIZOUG, ABDELHAK ZOUGGARET, BOUALEM MERABET, ABDERRAHIM BELMADANI
303	Photo-electrochemical and Physical Properties of the Spinel CuMn2O4 Prepared by Chemical Route: Application to Photodegradation of carminic acid dye	
	Participant	Hafidha BOUCHAABA University Mustapha Stambouli of Mascara
	Co-authors	SARRA GOUDJILI, ZOHRA FERGOUG
17	Control of six-phase two-motor drive machine serie-connected fed by five-level six-phase inverter	
	Participant	Taieb BESSAAD Hassiba Benbouali University Chlef
	Co-authors	ABDERRAHMEN BENBOUALI



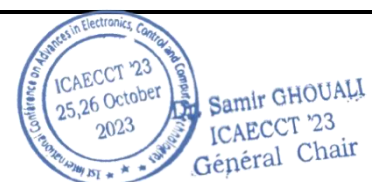
## VIRTUAL CONFERENCE SESSION

ROOM E: Control Systems, Robotics and Automation (VIRTUAL)						
Session Chairmen	<b>Dr. Soufyane CHEKROUN</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Omar DAHOU</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Benyekhlef KADA</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Boumediene BENABDALLAH SEREIR</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria					
	ID					
14:00- 14:15	11	Detecting Bearing Faults by Processing Vibration Signals <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%; padding: 2px;">Participant</td> <td style="padding: 2px;">Karim BOUAOUICHE <span style="float: right; font-size: small;">Badji Mokhtar-Annaba University</span></td> </tr> <tr> <td style="padding: 2px;">Co-authors</td> <td style="padding: 2px;">YAMINA MENASRIA, DALILA KHALFA</td> </tr> </table>	Participant	Karim BOUAOUICHE <span style="float: right; font-size: small;">Badji Mokhtar-Annaba University</span>	Co-authors	YAMINA MENASRIA, DALILA KHALFA
Participant	Karim BOUAOUICHE <span style="float: right; font-size: small;">Badji Mokhtar-Annaba University</span>					
Co-authors	YAMINA MENASRIA, DALILA KHALFA					
14:15- 14:30	20	Enhancing Performance and Robustness of Vector Control for Three-Phase Synchronous Reluctance Machine Using Second-Order Sliding Mode <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%; padding: 2px;">Participant</td> <td style="padding: 2px;">Belkacem SELMA <span style="float: right; font-size: small;">Hassiba Benbouali University of Chlef</span></td> </tr> <tr> <td style="padding: 2px;">Co-authors</td> <td style="padding: 2px;">ELHADJ BOUNADJA, BACHIR BELMADANI, BOUMEDIENE SELMA</td> </tr> </table>	Participant	Belkacem SELMA <span style="float: right; font-size: small;">Hassiba Benbouali University of Chlef</span>	Co-authors	ELHADJ BOUNADJA, BACHIR BELMADANI, BOUMEDIENE SELMA
Participant	Belkacem SELMA <span style="float: right; font-size: small;">Hassiba Benbouali University of Chlef</span>					
Co-authors	ELHADJ BOUNADJA, BACHIR BELMADANI, BOUMEDIENE SELMA					
14:30- 14:45	23	Second Order Sliding Mode Control of a Hybrid Excitation Synchronous Generator-based Wind Turbine supplying a DC Load <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%; padding: 2px;">Participant</td> <td style="padding: 2px;">Walid Mohammed KACEMI <span style="float: right; font-size: small;">Hassiba Benbouali University of Chlef</span></td> </tr> <tr> <td style="padding: 2px;">Co-authors</td> <td style="padding: 2px;">ELHADJ BOUNADJA, ABDELKADIR BELHADJ DJILALI</td> </tr> </table>	Participant	Walid Mohammed KACEMI <span style="float: right; font-size: small;">Hassiba Benbouali University of Chlef</span>	Co-authors	ELHADJ BOUNADJA, ABDELKADIR BELHADJ DJILALI
Participant	Walid Mohammed KACEMI <span style="float: right; font-size: small;">Hassiba Benbouali University of Chlef</span>					
Co-authors	ELHADJ BOUNADJA, ABDELKADIR BELHADJ DJILALI					
14:45- 15:00	21	Modeling and Control of Variable Structure Scheme for Grid-Connected Wind Power Production System with Parallel-Connected Synchronous Reluctance Generators <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%; padding: 2px;">Participant</td> <td style="padding: 2px;">Belkacem SELMA <span style="float: right; font-size: small;">Hassiba Benbouali University of Chlef</span></td> </tr> <tr> <td style="padding: 2px;">Co-authors</td> <td style="padding: 2px;">ELHADJ BOUNADJA, BACHIR BELMADANI, BOUMEDIENE SELMA</td> </tr> </table>	Participant	Belkacem SELMA <span style="float: right; font-size: small;">Hassiba Benbouali University of Chlef</span>	Co-authors	ELHADJ BOUNADJA, BACHIR BELMADANI, BOUMEDIENE SELMA
Participant	Belkacem SELMA <span style="float: right; font-size: small;">Hassiba Benbouali University of Chlef</span>					
Co-authors	ELHADJ BOUNADJA, BACHIR BELMADANI, BOUMEDIENE SELMA					
15:00- 15:15	59	Modeling and control of a twin-rotor drone <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%; padding: 2px;">Participant</td> <td style="padding: 2px;">Aissa MEKSI <span style="float: right; font-size: small;">University of Sciences and Technology of Oran</span></td> </tr> <tr> <td style="padding: 2px;">Co-authors</td> <td style="padding: 2px;">Laid ABDELALI</td> </tr> </table>	Participant	Aissa MEKSI <span style="float: right; font-size: small;">University of Sciences and Technology of Oran</span>	Co-authors	Laid ABDELALI
Participant	Aissa MEKSI <span style="float: right; font-size: small;">University of Sciences and Technology of Oran</span>					
Co-authors	Laid ABDELALI					
15:15- 16:15	Poster session 1 & Coffee /Tea break					
16:15- 16:30	60	Induction Machine Parameters Identification By Using Hybridation Between Genetic Algorithm And Hooke-Jeeves method <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <tr> <td style="width: 15%; padding: 2px;">Participant</td> <td style="padding: 2px;">El-Ghalia BOUDISSA <span style="float: right; font-size: small;">Saad Dahlab University of Blida1</span></td> </tr> <tr> <td style="padding: 2px;">Co-authors</td> <td style="padding: 2px;">F. HABBI, N. DIF, N.E.H. GABOUR, M. BOUNEKHLA</td> </tr> </table>	Participant	El-Ghalia BOUDISSA <span style="float: right; font-size: small;">Saad Dahlab University of Blida1</span>	Co-authors	F. HABBI, N. DIF, N.E.H. GABOUR, M. BOUNEKHLA
Participant	El-Ghalia BOUDISSA <span style="float: right; font-size: small;">Saad Dahlab University of Blida1</span>					
Co-authors	F. HABBI, N. DIF, N.E.H. GABOUR, M. BOUNEKHLA					

16:30- 16:45	68	Particle Swarm Optimization Algorithm-Based PID Controller for Output Voltage Regulation of Synchronous Generator	
		Participant	El-Ghalia BOUDISSA Saad Dahlab University of Blida1
		Co-authors	FATIHA HABBI, NOUR EL HOUDA GABOUR, MOHAMED BOUNEKHLA AND DIF NAAS
16:45- 17:00	253	Fuzzy Neuronal with Robust Control for Uncertain Nonlinear Systems	
		Participant	Fatima Zohra DAIKH University Mustapha Stambouli of Mascara
		Co-authors	MOHAMMED SEGHIR GUELLIL, MOHAMMED AMINE HAMADOUCHE
17:00- 17:15	8	Sliding Mode Control of a Five-Phase Series- Connected Two-Motor Drive	
		Participant	Omar ZOUAID polytechnic national school of Algiers
		Co-authors	LAZHARI NEZLI
17:15- 17:30	25	Simplified Control of PMSM Motors with Matrix Converter using SVM Strategy	
		Participant	Fayssal SAIDI Hassiba Benbouali University Chlef
		Co-authors	ELHADJ BOUNADJA, ABDELKADER DJAHBAR
17:30- 17:45	85	Speed Sliding Control of Squirrel Cage Motor combined NPC Five Level Inverter	
		Participant	Kheira MENDAZ University Ain Temouchent
		Co-authors	BENHADDA YAMINA, YOUNES KHADIDJA

## ROOM F: Telecommunications and its Applications (VIRTUAL)

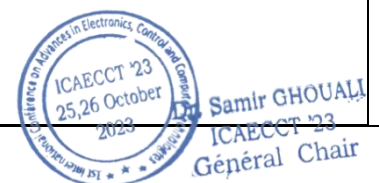
Session Chairmen	<b>Dr. Abdelhak ZOUGGARET</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Benzerga FELLAH</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Abderrahmane LOUNI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Fatima Zohra BOUMEDIENE</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria					
	<b>ID</b>					
14:00- 14:15	18	Millimeter-wave transmission at 90 GHz in a hybrid fiber/FSO communication system using MIMO-FSO channel performance <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Samra DEROUICHE <span style="float: right;">UABT University, Tlemcen</span></td> </tr> <tr> <td>Co-authors</td> <td>SAMIR KAMECHE, HAROUN ERRACHID ADARDOUR</td> </tr> </table>	Participant	Samra DEROUICHE <span style="float: right;">UABT University, Tlemcen</span>	Co-authors	SAMIR KAMECHE, HAROUN ERRACHID ADARDOUR
Participant	Samra DEROUICHE <span style="float: right;">UABT University, Tlemcen</span>					
Co-authors	SAMIR KAMECHE, HAROUN ERRACHID ADARDOUR					
14:15- 14:30	16	Performance Analysis of Hybrid Multiple Access OCDMA/OFDM System Using Spectral Cyclic Shift Code <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Mohamed RAHMANI <span style="float: right;">TAHRI Mohamed University of Bechar</span></td> </tr> <tr> <td>Co-authors</td> <td>ABDELHAMID CHERIFI, GHOUTIA NAIMA SABRI</td> </tr> </table>	Participant	Mohamed RAHMANI <span style="float: right;">TAHRI Mohamed University of Bechar</span>	Co-authors	ABDELHAMID CHERIFI, GHOUTIA NAIMA SABRI
Participant	Mohamed RAHMANI <span style="float: right;">TAHRI Mohamed University of Bechar</span>					
Co-authors	ABDELHAMID CHERIFI, GHOUTIA NAIMA SABRI					
14:30- 14:45	5	Performance in Power-Domain of NOMA for fifth-generation mobile networks (5G) <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Yaakoub BERROUCHE <span style="float: right;">Université Ferhat Abbas Sétif 1</span></td> </tr> <tr> <td>Co-authors</td> <td></td> </tr> </table>	Participant	Yaakoub BERROUCHE <span style="float: right;">Université Ferhat Abbas Sétif 1</span>	Co-authors	
Participant	Yaakoub BERROUCHE <span style="float: right;">Université Ferhat Abbas Sétif 1</span>					
Co-authors						
14:45- 15:00	28	High Cardinality Optical Multiple Access CDMA Networks Adopting a Novel Incoherent Spectral/Temporal/Spatial Encoding Block <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Mohamed RAHMANI <span style="float: right;">TAHRI Mohamed University of Bechar</span></td> </tr> <tr> <td>Co-authors</td> <td>ABDELHAMID CHERIFI, GHOUTIA NAIMA SABRI</td> </tr> </table>	Participant	Mohamed RAHMANI <span style="float: right;">TAHRI Mohamed University of Bechar</span>	Co-authors	ABDELHAMID CHERIFI, GHOUTIA NAIMA SABRI
Participant	Mohamed RAHMANI <span style="float: right;">TAHRI Mohamed University of Bechar</span>					
Co-authors	ABDELHAMID CHERIFI, GHOUTIA NAIMA SABRI					
15:00- 15:15	29	Performance Optimization and Comparative Analysis of Reliable Multicast Protocols (AMRHy and DyRAM) in Wireless Mesh Networks <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Asma BENMOHAMMED <span style="float: right;">Université Abdelhamid Mehri Constantine 2</span></td> </tr> <tr> <td>Co-authors</td> <td>MERNIZ SALAH</td> </tr> </table>	Participant	Asma BENMOHAMMED <span style="float: right;">Université Abdelhamid Mehri Constantine 2</span>	Co-authors	MERNIZ SALAH
Participant	Asma BENMOHAMMED <span style="float: right;">Université Abdelhamid Mehri Constantine 2</span>					
Co-authors	MERNIZ SALAH					
15:15- 16:15	<b>Poster session 1 &amp; Coffee /Tea break</b>					
16:15- 16:30	56	A hybrid medical images watermarking technique using DWT and DCT <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Rania HAMAMI <span style="float: right;">LASA laboratory, Badji Mokhtar Annaba university</span></td> </tr> <tr> <td>Co-authors</td> <td>NARIMA ZERMI, LARBI BOUBCHIR, AMINE KHALDI</td> </tr> </table>	Participant	Rania HAMAMI <span style="float: right;">LASA laboratory, Badji Mokhtar Annaba university</span>	Co-authors	NARIMA ZERMI, LARBI BOUBCHIR, AMINE KHALDI
Participant	Rania HAMAMI <span style="float: right;">LASA laboratory, Badji Mokhtar Annaba university</span>					
Co-authors	NARIMA ZERMI, LARBI BOUBCHIR, AMINE KHALDI					
16:30- 16:45	141	Smart Solutions for Smartphone Repair: Connecting Users with Expert Technicians <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Rajaa BENHADI <span style="float: right;">University Mustapha Stambouli of Mascara</span></td> </tr> <tr> <td>Co-authors</td> <td>SAMIR GHOUALI</td> </tr> </table>	Participant	Rajaa BENHADI <span style="float: right;">University Mustapha Stambouli of Mascara</span>	Co-authors	SAMIR GHOUALI
Participant	Rajaa BENHADI <span style="float: right;">University Mustapha Stambouli of Mascara</span>					
Co-authors	SAMIR GHOUALI					



16:45- 17:00	124	Implementation of MF - TDMA OTDM-WDM mapping for the DVB-RCS2 system: Functional approach	
		Participant	Meryem Romaissa DJELLOULI university Djillali Liabes Sidi Bel Abbes
		Co-authors	SID AHMED CHOUAKRI, ABDELKRIM GHAZ
17:00- 17:15	180	Spectro-Temporal Features for Robust AMR-NB Transcoded Speech Recognition Using Deep Neural Networks	
		Participant	Lallouani OUCHAKOUR USTHB
		Co-authors	MOHAMED DEBYECHE
17:15- 17:30	77	An overview on DNA-based cryptography	
		Participant	Djihad DJAA Djillali Liabes University, Sidi Bel Abbes
		Co-authors	KHEIREDDINE MEKKAOU, SOFIANE BOUKLI-HACENE
17:30- 17:45	47	Modeling of Radar Sea Clutter Using the Mixture of Three Weibull Distributions	
		Participant	Sarah LEFAIDA University Des Frères Mentouri Constantine
		Co-authors	Faouzi SOLTANI, Amar MEZACHE

ROOM G: Telecommunications and its Applications (VIRTUAL)			
Session Chairmen	<b>Prof. Larbi SEKHRI</b> Industrial Computing and Networks Research Laboratory (LIIR), University of Oran <b>Prof. Amina BENDAOU</b> Djillali Liabes University of Sidi Bel-Abbes, Algeria <b>Dr. Abdelfettah MIRAOU</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Mokhtar BOUHALOUANE</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria		
	ID		
14:00- 14:15	34	Design and Performance Evaluation of X-Band Satellite Antenna with Frequency Reconfigurability Using Varactor Diode	
		Participant	Rahma Djaouda TALEB ABOU BEKR BELKAID University, Tlemcen
		Co-authors	MOHAMMED ZAKARYA BABA-AHMED, MOHAMMED AMIN RABAH, SIDAHMED BENABBOU, MERIEM IKRAM SOUFI
14:15- 14:30	39	A Log Periodic Dipole Antenna Array SIW Feeding For 5G Millimeter-Wave Applications	
		Participant	Hanane METAHRI ABOU BEKR BELKAID University, Tlemcen
		Co-authors	MEHADJI ABRI, MOHAMMED MOULAY, HANAA MOUSSAOUI, NABIL CHERIF

14:30- 14:45	43	Inovation of a Miniaturized Antenna Array Based On A High Frequency Substrate And Metamaterial Cells	Participant	Fayza BOUSALAH ABOU BEKR BELKAID University, Tlemcen
			Co-authors	HAYAT BENOSMAN, AMIN MOHAMMED RABAH, ZAKARIYA MOHAMMED BABA AHMED
14:45- 15:00	48	Efficiency of 40 Gbps OTDM-FSO optical system under weather conditions	Participant	Haroun Errachid ADARDOUR UHBC University, Chelf
			Co-authors	SINGH MEHTAB, IKRAM KHELOUF, C. ABDELHAKIM FELLAGUE
15:00- 15:15	49	Design of a Miniature Circularly Polarized Microstrip Antenna for GNSS Applications	Participant	Hayet BENOSMAN ABOU BEKR BELKAID University, Tlemcen
			Co-authors	FAYZA BOUSALAH, AMINE RABAH
15:15- 16:15	<b>Poster session 1 &amp; Coffee /Tea break</b>			
16:15- 16:30	63	Numerical Dynamics Analysis of a Chaotic Third-Order Phase-Locked Loop	Participant	Mohammed BENDAOUD ABOU BEKR BELKAID University, Tlemcen
			Co-authors	SAMIR KAMECHE, ACHOUR OUSLIMANI
16:30- 16:45	115	Blind Speech Enhancement Based on Adaptive Filtering and Improved Bat Algorithm	Participant	Sofiane FISLI 8 Mai 1945- Guelma University
			Co-authors	MOHAMED DJENDI
16:45- 17:00	121	Study of a dual polarized RoF OFDM system with WDM-PON structure for mobile broadband networks	Participant	chebra abdennour FELLAG ABOU BEKR BELKAID University, Tlemcen
			Co-authors	AHMED RIAD BORSALI, MEHDI ROUISSAT
17:00- 17:15	89	Design and Simulation of U-slotted Microstrip Patch Antenna for L, S, C and X Band	Participant	Riadh DEGACHI University of El-Oued
			Co-authors	GHENDIR SAID
17:15- 17:30	31	A Nano rectangular gold and graphene patch antenna for WBAN applications	Participant	Bouchra MOULFI University of Ain Temouchent
			Co-authors	SOUHEYLA FEROUANI, DJALAL ZIANI KERARTI AND FATIMA ZAHRA MOUSSA
17:30- 17:45	131	Design and Simulation of a Leaky Wave Antenna Based on Metamaterial Substrate Integrated Waveguide for Millimeter-wave Application	Participant	Chaabane SOUMALI University of Yahia Fares Medea
			Co-authors	MOUNIR BELATTAR





# 26 October 2023

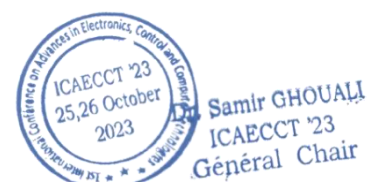
08:30 - 13:00

REGISTRATION

## FACE TO FACE CONFERENCE ORAL SESSION (Physical)

### ROOM A: Control Systems, Robotics and Automation

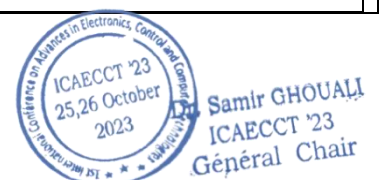
Session Chairmen	<b>Dr. Soufyane CHEKROUN</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Benaoumeur IBARI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Mohammed El Amine SENOUSSAOUI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Adel BENABBOUN</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria					
	<b>ID</b>					
09:00- 09:15	114	Enhancing Industrial Process Control using multi-layer perceptron (MLP) <table border="1"> <tr> <td>Participant</td> <td>Leila BENAÏSSA KADDAR University Mustapha Stambouli of Mascara</td> </tr> <tr> <td>Co-authors</td> <td>Mohamed El Mehdi ZAREB</td> </tr> </table>	Participant	Leila BENAÏSSA KADDAR University Mustapha Stambouli of Mascara	Co-authors	Mohamed El Mehdi ZAREB
Participant	Leila BENAÏSSA KADDAR University Mustapha Stambouli of Mascara					
Co-authors	Mohamed El Mehdi ZAREB					
09:15- 09:30	171	Velocity observer-based computed torque control for trajectory tracking of uncertain robotic manipulators <table border="1"> <tr> <td>Participant</td> <td>Rezali BAGHDADI University Mustapha Stambouli of Mascara</td> </tr> <tr> <td>Co-authors</td> <td>BENAOUMEUR IBARI, MOURAD HEBALI, OMAR MEDJADJ, MOHAMMED EL-AMINE BEYOUR, AHMED FOITIH ZOUBIR</td> </tr> </table>	Participant	Rezali BAGHDADI University Mustapha Stambouli of Mascara	Co-authors	BENAOUMEUR IBARI, MOURAD HEBALI, OMAR MEDJADJ, MOHAMMED EL-AMINE BEYOUR, AHMED FOITIH ZOUBIR
Participant	Rezali BAGHDADI University Mustapha Stambouli of Mascara					
Co-authors	BENAOUMEUR IBARI, MOURAD HEBALI, OMAR MEDJADJ, MOHAMMED EL-AMINE BEYOUR, AHMED FOITIH ZOUBIR					
09:30- 09:45	179	Electric Vehicle Wheel-Slip control Based on Sliding Mode Controller <table border="1"> <tr> <td>Participant</td> <td>Tabti KHATIR University Mustapha Stambouli of Mascara</td> </tr> <tr> <td>Co-authors</td> <td>MOSTEFAI LOTFI, CHEKROUN SOUFYANE, NEKROUF SADEK, LARBAOUI AHMED</td> </tr> </table>	Participant	Tabti KHATIR University Mustapha Stambouli of Mascara	Co-authors	MOSTEFAI LOTFI, CHEKROUN SOUFYANE, NEKROUF SADEK, LARBAOUI AHMED
Participant	Tabti KHATIR University Mustapha Stambouli of Mascara					
Co-authors	MOSTEFAI LOTFI, CHEKROUN SOUFYANE, NEKROUF SADEK, LARBAOUI AHMED					
09:45- 10:45	<b>Poster session 2 &amp; coffee break</b>					
10:45- 11:00	109	Intelligent control strategy of induction motor through Fuzzy Logic Direct Torque Control <table border="1"> <tr> <td>Participant</td> <td>Ameur Fethi AIMER University Dr. Tahar Moulay of Saida, Algeria</td> </tr> <tr> <td>Co-authors</td> <td>AHMED HAMIDA BOUDINAR, MOHAMED EL-AMINE KHODJA, AZEDDINE BENDIABDELLAH</td> </tr> </table>	Participant	Ameur Fethi AIMER University Dr. Tahar Moulay of Saida, Algeria	Co-authors	AHMED HAMIDA BOUDINAR, MOHAMED EL-AMINE KHODJA, AZEDDINE BENDIABDELLAH
Participant	Ameur Fethi AIMER University Dr. Tahar Moulay of Saida, Algeria					
Co-authors	AHMED HAMIDA BOUDINAR, MOHAMED EL-AMINE KHODJA, AZEDDINE BENDIABDELLAH					
11:00- 11:15	257	Full State Feedback Control for Underactuated Nonlinear Mechanical Systems <table border="1"> <tr> <td>Participant</td> <td>Anis FEDDAOUI Badji Mokhtar University</td> </tr> <tr> <td>Co-authors</td> <td>M.A. DJEHAF, Y.I. DJILLANI KOBIBI, O. FEZAZI</td> </tr> </table>	Participant	Anis FEDDAOUI Badji Mokhtar University	Co-authors	M.A. DJEHAF, Y.I. DJILLANI KOBIBI, O. FEZAZI
Participant	Anis FEDDAOUI Badji Mokhtar University					
Co-authors	M.A. DJEHAF, Y.I. DJILLANI KOBIBI, O. FEZAZI					



11:15- 11:30	132	A comparative analysis of bioreactor system control with the high-order sliding controller and the classic sliding control	
		Participant	Mohamed MESSABIH University of Science and Technology of Oran, USTO
11:30- 11:45	113	Identifying Spatial Risk of Road Accidents Based On Fuzzy Logic Approach	
		Participant	Miloud DRISS University Mustapha Stambouli of Mascara
		Co-authors	BACHIR DAAOU, ABDERRAHMENE KACIMI, ABDERRAHMENE SNOUSSAOUI
		Co-authors	MOHAMED AMINE HAMADOUCHE, MUSTAPHA LALLAM, OUALID LARGUECHE, SOFIANE ADJLOUT

## FACE TO FACE CONFERENCE ORAL SESSION (Physical)

ROOM B: Telecommunications and its Applications			
Session Chairmen	<b>Dr. Abdelfettah MIRAOU</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Mohamed MOULAY</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Mokhtar BESSEGHIER</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Belhassane AHMEDBLAHA</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria		
	<b>ID</b>		
09:00- 09:15	122	Turbulence Effect on RGB Image Transmission over IM/DD Communication-Oriented Free-Space Optical Systems	
		Participant	Amina DJIR Djillali Liabes University, Sidi-Bel-Abbes
		Co-authors	Fatiha MESKINE, Mohamed Larbi TAYEBI
09:15- 09:30	119	Deep learning for Microwave Modeling and Design	
		Participant	Nour El Houda Sara SENASLI University Dr. Tahar Moulay of Saida, Algeria
		Co-authors	MOHAMMED CHETIOUI, LAMIA SENASLI, MEHDI DAMOU
09:30- 10:30	<b>Poster session 2 &amp; coffee break</b>		
10:30- 10:45	252	Compressive Spectrum Sensing for Cognitive Radio: Recovery and Detection	
		Participant	Hadj Abdelkader BENZATER Ecole militaire polytechnique, Alger
		Co-authors	DJAMEL TEGUIG, NACERREDINE LASSAMI
10:45- 11:00	95	Design and Performance Analysis of a High-Gain Coaxial Probe-Fed Fractal Antenna for Multiband Applications Using Sierpinski Triangle Geometry	
		Participant	ABDELBASSET AZZOUC Dr. Moulay Taher University Saida
		Co-authors	RACHID BOUHMIDI, ABDELLATIF KHELIL
11:00- 11:15	67	Intelligent Recognition of Digital Modulation on Terahertz Channel	
		Participant	Asmâa OUESSAI University of Saida
		Co-authors	ABDELKADER TAMI, HACHEMI SOUMAYA, KOURAT IKRAM



## FACE TO FACE CONFERENCE ORAL SESSION (Physical)

### ROOM C: High Voltage Engineering and Applications

Session Chairmen	<b>Prof. Youcef BENMIMOUN</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Fouad KHERBOUCHE</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Toufik Ahmed HOUARI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria						
	<b>ID</b>						
09:30- 09:45	138	Analyzing Particles Trajectories in a Free-Fall Electrostatic Separator <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Mohammed Fethi BEKKARA <span style="float: right; font-size: small;">University Mustapha Stambouli of Mascara</span></td> </tr> <tr> <td>Co-authors</td> <td>A. BOUARGOUB, A. CHELIH, D. AZZEDDINE, H.A. AZZEDDINE, Y. BENMIMOUN</td> </tr> </table>		Participant	Mohammed Fethi BEKKARA <span style="float: right; font-size: small;">University Mustapha Stambouli of Mascara</span>	Co-authors	A. BOUARGOUB, A. CHELIH, D. AZZEDDINE, H.A. AZZEDDINE, Y. BENMIMOUN
Participant	Mohammed Fethi BEKKARA <span style="float: right; font-size: small;">University Mustapha Stambouli of Mascara</span>						
Co-authors	A. BOUARGOUB, A. CHELIH, D. AZZEDDINE, H.A. AZZEDDINE, Y. BENMIMOUN						
09:45- 10:00	81	Experimental Study of Current Density and Electric Field at Various Temperatures in Electrostatic Precipitator <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Hakim AIT SAID <span style="float: right; font-size: small;">University of Relizane</span></td> </tr> <tr> <td>Co-authors</td> <td>ABDELKRIM LAIFAOU, BOUZIANE MELIANI, MEZIANE KACI, NIHAD HEBBAR, MASSINISSA AISSOU, HAMOU NOURI</td> </tr> </table>		Participant	Hakim AIT SAID <span style="float: right; font-size: small;">University of Relizane</span>	Co-authors	ABDELKRIM LAIFAOU, BOUZIANE MELIANI, MEZIANE KACI, NIHAD HEBBAR, MASSINISSA AISSOU, HAMOU NOURI
Participant	Hakim AIT SAID <span style="float: right; font-size: small;">University of Relizane</span>						
Co-authors	ABDELKRIM LAIFAOU, BOUZIANE MELIANI, MEZIANE KACI, NIHAD HEBBAR, MASSINISSA AISSOU, HAMOU NOURI						
10:00- 10:15	64	Multi objective particle swarm optimization with Selective harmonic elimination technique for neutral point clamped multilevel inverters <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Nour El Houda GABOUR <span style="float: right; font-size: small;">University M'hamed Bougara Boumerdes</span></td> </tr> <tr> <td>Co-authors</td> <td>EL GHALIA BOUDISSA, FATIHA HABBI, MOHAMED BOUNEKHLA</td> </tr> </table>		Participant	Nour El Houda GABOUR <span style="float: right; font-size: small;">University M'hamed Bougara Boumerdes</span>	Co-authors	EL GHALIA BOUDISSA, FATIHA HABBI, MOHAMED BOUNEKHLA
Participant	Nour El Houda GABOUR <span style="float: right; font-size: small;">University M'hamed Bougara Boumerdes</span>						
Co-authors	EL GHALIA BOUDISSA, FATIHA HABBI, MOHAMED BOUNEKHLA						

## CLOSING CEREMONY



**Dr. Samir GHOUALI**  
 ICAECCCT '23  
 Général Chair

## CONFERENCE POSTER SESSION 2

<b>Session Chairmen</b>	<b>Dr. Abdelkader BESSAKRA</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Isma HATRAF</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria					
<b>ID</b>						
<b>35</b>	Planar Micro-Inductor Design for Stand-Alone Photovoltaic DC-DC Converter <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Participant</td> <td>Mokhtaria DERKAOU National Higher School of Telecommunications &amp; ICT of Oran</td> </tr> <tr> <td>Co-authors</td> <td>YAMINA BENHADDA, AZZEDINE HAMID</td> </tr> </table>		Participant	Mokhtaria DERKAOU National Higher School of Telecommunications & ICT of Oran	Co-authors	YAMINA BENHADDA, AZZEDINE HAMID
Participant	Mokhtaria DERKAOU National Higher School of Telecommunications & ICT of Oran					
Co-authors	YAMINA BENHADDA, AZZEDINE HAMID					
<b>36</b>	Monolithic Micro-Transformer Magneto-Thermal Behaviour for MEMS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Participant</td> <td>Mokhtaria DERKAOU National Higher School of Telecommunications &amp; ICT of Oran</td> </tr> <tr> <td>Co-authors</td> <td>YAMINA BENHADDA, AZZEDINE HAMID</td> </tr> </table>		Participant	Mokhtaria DERKAOU National Higher School of Telecommunications & ICT of Oran	Co-authors	YAMINA BENHADDA, AZZEDINE HAMID
Participant	Mokhtaria DERKAOU National Higher School of Telecommunications & ICT of Oran					
Co-authors	YAMINA BENHADDA, AZZEDINE HAMID					
<b>42</b>	Design and Realization of Power Divider Using Microstrip Stubs Line <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Participant</td> <td>Rahmouna EL BOUSLEMTI Ecole Nationale polytechnique d'oran, Maurice audin</td> </tr> <tr> <td>Co-authors</td> <td></td> </tr> </table>		Participant	Rahmouna EL BOUSLEMTI Ecole Nationale polytechnique d'oran, Maurice audin	Co-authors	
Participant	Rahmouna EL BOUSLEMTI Ecole Nationale polytechnique d'oran, Maurice audin					
Co-authors						
<b>41</b>	Real-Time Hardware and Software System for Assistance in Daily-life Mobility of Visually Impaired Individuals <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Participant</td> <td>Rahmouna EL BOUSLEMTI Ecole Nationale polytechnique d'oran, Maurice audin</td> </tr> <tr> <td>Co-authors</td> <td>N. BENTYAEB, W. KROUCHI</td> </tr> </table>		Participant	Rahmouna EL BOUSLEMTI Ecole Nationale polytechnique d'oran, Maurice audin	Co-authors	N. BENTYAEB, W. KROUCHI
Participant	Rahmouna EL BOUSLEMTI Ecole Nationale polytechnique d'oran, Maurice audin					
Co-authors	N. BENTYAEB, W. KROUCHI					
<b>46</b>	Implementation of GA based selective harmonic elimination pulse width modulation for two level three phase inverters using DSPACE DS1104 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Participant</td> <td>Lemya DJAFER Hassiba Benbouali University of Chlef</td> </tr> <tr> <td>Co-authors</td> <td>Rachid TALEB, Fayçal MEHEDI, Aicha AISSA BOKHTACHE</td> </tr> </table>		Participant	Lemya DJAFER Hassiba Benbouali University of Chlef	Co-authors	Rachid TALEB, Fayçal MEHEDI, Aicha AISSA BOKHTACHE
Participant	Lemya DJAFER Hassiba Benbouali University of Chlef					
Co-authors	Rachid TALEB, Fayçal MEHEDI, Aicha AISSA BOKHTACHE					
<b>58</b>	U-Net vs. TransUNet for Weed Segmentation: A Comparative Study <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Participant</td> <td>Mohamed El Amine BOUHADJER Djillali Liabes University Sidi Bel Abbas</td> </tr> <tr> <td>Co-authors</td> <td>SARAH MAZARI, MILOUD CHIKRELMEZOUAR</td> </tr> </table>		Participant	Mohamed El Amine BOUHADJER Djillali Liabes University Sidi Bel Abbas	Co-authors	SARAH MAZARI, MILOUD CHIKRELMEZOUAR
Participant	Mohamed El Amine BOUHADJER Djillali Liabes University Sidi Bel Abbas					
Co-authors	SARAH MAZARI, MILOUD CHIKRELMEZOUAR					
<b>66</b>	Design of an All-Optical Half Adder Around 1.31 $\mu\text{m}$ Based on Nonlinear ZDPhCRRs <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Participant</td> <td>Abdallah IKHLEF Abou Bakr Belkaid University of Tlemcen</td> </tr> <tr> <td>Co-authors</td> <td>HADJIRA BADAoui, MEHADJI ABRI</td> </tr> </table>		Participant	Abdallah IKHLEF Abou Bakr Belkaid University of Tlemcen	Co-authors	HADJIRA BADAoui, MEHADJI ABRI
Participant	Abdallah IKHLEF Abou Bakr Belkaid University of Tlemcen					
Co-authors	HADJIRA BADAoui, MEHADJI ABRI					
<b>173</b>	Study of the MWT (Metal Wrap Through) heterojunction solar cell with numerical simulation <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Participant</td> <td>Nadjet BENADLA Abou Bakr Belkaid University of Tlemcen</td> </tr> <tr> <td>Co-authors</td> <td></td> </tr> </table>		Participant	Nadjet BENADLA Abou Bakr Belkaid University of Tlemcen	Co-authors	
Participant	Nadjet BENADLA Abou Bakr Belkaid University of Tlemcen					
Co-authors						

129	A Comprehensive Analysis of 433MHz Image Telemetry in Educational CubeSat Context	
	Participant	Mohammed amine ZAFRANE University of Science and Technologies of Oran
	Co-authors	MILOUD BECHEHIMA, AHMED RAMZI HOUALEF
133	Simulation of Harmonic Perturbation for AC Impedance Measurement in a SOFC Cathode	
	Participant	Ismail BENCHEBIBA University of Chlef
	Co-authors	MOHAMED MOSTEFAOUI, NEDJAR YAHIA MOUHAMED AMINE
26	Water Treatment Using a Kit Consisting of Two Identical Series Ozone Generators Powered by a Pv (Photovoltaic) System, Designed for Isolated Areas	
	Participant	Souhila BOUDJELLA university Mustapha Stambouli of Mascara
	Co-authors	M NADJIB BRAHAMI, FATIMA Z BOUDJELLA, SAID NEMMICH, AMAR TILMATINE, MOSTEFA BRAHAMI
70	Investigating the impact of the receiver in protecting two wind turbines with different settings from lightning	
	Participant	Younes ABDELBARI University of Tiaret
	Co-authors	MIMOUNI ABDENBI
116	Modeling and Optimization of an Industrial Roll-type Separator Using the Response Surface Methodology	
	Participant	Djillali AZZEDDINE university Mustapha Stambouli of Mascara
	Co-authors	MOHAMMED FETHI BEKKARA, YOUCEF BENMIMOUN, HOCINE ABDELHAK AZZEDDINE
130	Analyzing Ozone Generation: An Experimental Study of Volume Dielectric Barrier Discharge Generators	
	Participant	Ibrahim NEDJAR university Mustapha Stambouli of Mascara
	Co-authors	A. BENABBOUN, A. MOUFFAK, S. NEMMICH
144	Two-dimensional simulation of dielectric barrier discharge in argon gas at atmospheric pressure	
	Participant	Nedjar Yahia Mohamed Amine Hassiba Ben bouali University of Chlef
	Co-authors	MOHAMED MOSTEFAOUI, ISMAIL BENCHEBIBA, DJILALI BENOUCHEF
147	Automatic Voltage Regulator of a Synchronous Generator by Using Fuzzy Logic	
	Participant	Yassine ADJISSI Saad Dahlab University, Blida
	Co-authors	BOUDISSA EL-GHALIA, BOUNEKHLA M'HAMED
153	Efficiency and Sustainability in Public Transit: The Sidi Bel Abbès Tramway Line Extension and Energy Recovery System	
	Participant	Houaria BELAHCENE university Mustapha Stambouli of Mascara
	Co-authors	O. DAHOU, A. MOUFFAK AND Y.I. DJILANI KOBIBI

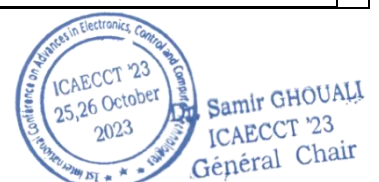
192	Current Control for an Electrostatic Separator	
	Participant	Hocine Abdelhak AZZEDDINE university Mustapha Stambouli of Mascara
	Co-authors	MOHAMMED FATHI BEKKARA, DJILLALI AZZEDINE, YUCEF BENMIMOUN, ABDELKADER HORCH, MOURAD HEBALI, BENAOUMEUR IBARI, DJAMEL EDDINE CHAOUCH, AHMED ARBAOUI

ROOM D: Control Systems, Robotics and Automation (VIRTUAL)						
Session Chairmen	<b>Dr. Djamel Eddine CHAOUCH</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Adnane MOUFFAK</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Khatir TABTI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Djillali AZZEDDINE</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria					
	<b>ID</b>					
09:00- 09:15	<b>93</b>	Neural Input Output Linearization Control of Induction Motor <table border="1"> <tr> <td>Participant</td> <td>kheira MENDAZ university Ain Temouchent</td> </tr> <tr> <td>Co-authors</td> <td>YAMINA BENHADDA, NARIMENE KHADRAOUA</td> </tr> </table>	Participant	kheira MENDAZ university Ain Temouchent	Co-authors	YAMINA BENHADDA, NARIMENE KHADRAOUA
Participant	kheira MENDAZ university Ain Temouchent					
Co-authors	YAMINA BENHADDA, NARIMENE KHADRAOUA					
09:15- 09:30	<b>146</b>	Electronic Differential with Sliding Mode Backstepping Control for Vehicle Propulsion System <table border="1"> <tr> <td>Participant</td> <td>Ahmed LARBAOUI University Mustapha Stambouli of Mascara</td> </tr> <tr> <td>Co-authors</td> <td>A.BENABBOUN, H. AZZEDINE, K. TABTI, A. ZOGGARET, D. CHAOUCH, Y.I. DJILANI KOBIBI, A. BERROUDJI, K. BOUHADEF</td> </tr> </table>	Participant	Ahmed LARBAOUI University Mustapha Stambouli of Mascara	Co-authors	A.BENABBOUN, H. AZZEDINE, K. TABTI, A. ZOGGARET, D. CHAOUCH, Y.I. DJILANI KOBIBI, A. BERROUDJI, K. BOUHADEF
Participant	Ahmed LARBAOUI University Mustapha Stambouli of Mascara					
Co-authors	A.BENABBOUN, H. AZZEDINE, K. TABTI, A. ZOGGARET, D. CHAOUCH, Y.I. DJILANI KOBIBI, A. BERROUDJI, K. BOUHADEF					
09:30- 09:45	<b>99</b>	Exploiting the Open-Source ROS Framework for Self-Governing Drone Flight Empowered by Artificial Intelligence <table border="1"> <tr> <td>Participant</td> <td>Marwa GAIDI University Mustapha Stambouli of Mascara</td> </tr> <tr> <td>Co-authors</td> <td>SOUFYANE CHEKROUN, MOKHTAR ZERIKAT, MOHAMED EL MEHDI ZAREB</td> </tr> </table>	Participant	Marwa GAIDI University Mustapha Stambouli of Mascara	Co-authors	SOUFYANE CHEKROUN, MOKHTAR ZERIKAT, MOHAMED EL MEHDI ZAREB
Participant	Marwa GAIDI University Mustapha Stambouli of Mascara					
Co-authors	SOUFYANE CHEKROUN, MOKHTAR ZERIKAT, MOHAMED EL MEHDI ZAREB					
09:45- 10:45	<b>Poster session 2 &amp; coffee break</b>					
10:45- 11:00	<b>106</b>	Signal Processing-based Fault Detection <table border="1"> <tr> <td>Participant</td> <td>Chaima TAMRABET Badji Mokhtar University, Annaba</td> </tr> <tr> <td>Co-authors</td> <td>ELIAS HADJADJ AOUL, MOHAMED TAHAR DEKHMOCHE</td> </tr> </table>	Participant	Chaima TAMRABET Badji Mokhtar University, Annaba	Co-authors	ELIAS HADJADJ AOUL, MOHAMED TAHAR DEKHMOCHE
Participant	Chaima TAMRABET Badji Mokhtar University, Annaba					
Co-authors	ELIAS HADJADJ AOUL, MOHAMED TAHAR DEKHMOCHE					
11:00- 11:15	<b>125</b>	Integration and modeling thermal effect in Preisach model associated with the student distribution function using the finite element method <table border="1"> <tr> <td>Participant</td> <td>Mourad DAFRI Badji Mokhtar University, Annaba</td> </tr> <tr> <td>Co-authors</td> <td>MOURAD NAIDJI, ABDELAZIZ LADJIMI</td> </tr> </table>	Participant	Mourad DAFRI Badji Mokhtar University, Annaba	Co-authors	MOURAD NAIDJI, ABDELAZIZ LADJIMI
Participant	Mourad DAFRI Badji Mokhtar University, Annaba					
Co-authors	MOURAD NAIDJI, ABDELAZIZ LADJIMI					

11:15- 11:30	235	Hybrid GA-ANN model for the prediction of EV Wheel speeds	
		Participant	Medjdoub KHESSAM Center univ Naama
		Co-authors	HAZZAB ABDEL DJEBAR, MOUNA HADJADJ, REZKALLAH MILOUD, AMBRISH CHANDRA
11:30- 11:45	168	Simulation and control of energy storage systems in the hybrid renewable energies DC-Microgrid: a comparative study	
		Participant	Oussama HAFSI Ahmed Draia University, Adrar
		Co-authors	MOHAMED AMINE SOUMEUR, MOHAMED AMINE HARTANI, ABDESELEM CHAKAR, AISSA BENHAMOU, OTHMANE ABDELKHALEK
11:45- 12:00	174	State Estimation for Nonlinear System Using Line Integral Lyapunov Function: A Polytopic Approach with Unmeasurable Premises	
		Participant	Khalida MIMOUNE university of Biskra
		Co-authors	KHALIDA MIMOUNE, MOHAMED YACINE HAMMOUDI, SOURI MOHAMED MIMOUNE
12:00- 12:15	202	Fractional Order Adaptive MRAC Controller Design	
		Participant	Souad ANTEUR University Mustapha Stambouli of Mascara
		Co-authors	BACHIR BOUIADJRA ROCHDI, MOHAMMED BENMADANI DEBBAT
12:15- 12:30	62	Ear recognition system based on multi-scale feature extraction technique	
		Participant	Lebed Toufik University of May 08, 1945 Guelma
		Co-authors	ABDELHAK BOUKHAROUBA

## ROOM E: Electronics and its Applications (VIRTUAL)

Session Chairmen	<b>Prof. Abdelkader EL KEBIR</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Mourad HEBALI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Menouer BENNAOUM</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Abdelkader BAGHDAD BEY</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria		
	<b>ID</b>		
09:00- 09:15	12	Optimal Power Flow Solution using QPSODM Algorithm	
		Participant	Mourad NAIDJI Badji Mokhtar University, Annaba
		Co-authors	MOURAD DAFRI, ABDELBASET LAIB
09:15- 09:30	13	A novel approach for wind farm layout optimization using QPSODM algorithm	
		Participant	Mourad NAIDJI Badji Mokhtar University, Annaba
		Co-authors	MOURAD DAFRI



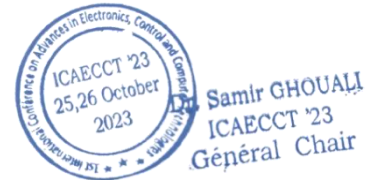
09:30- 09:45	30	Thermal Analysis and Heat Sink Optimization for Power Transistor Cooling	
		Participant	Yamina BENHADDA USTO, Oran
		Co-authors	K. MENDAZ, M. DERKAOUI, H. KHARBOUCH
09:45- 10:45	<b>Poster session 2 &amp; coffee break</b>		
10:45- 11:00	52	High Transmission Dielectric Grating at the Littrow Angle Using Antireflection Coating in the Visible Spectral Range	
		Participant	Mounira ZOUTAT University of Sciences and Technology Houari Boumediene
		Co-authors	BERBAR TARIK BOUZIAN
11:00- 11:15	137	Contribution to the Study of the Electrical Behavior of an 1T- 1C-DRAM Memory Cell in 250nm CMOS (3C-SiC) Technology	
		Participant	Jilali BERBARA Tissemsilt University
		Co-authors	MOURAD HEBALI, MOHAMMED EL-AMIN BEYOUR, MILOUD ABBOUN ABID, DJILALI CHALABI
11:15- 11:30	188	A New Design of Non-Causal Recursive Digital Filters with a backward-forward realization for both Standard and Non-standard Magnitude Specifications	
		Participant	Adnane MOUFFAK University Mustapha Stambouli of Mascara
		Co-authors	HAZZAB ABDELDEJEBAR, MOUNA HADJADJ, REZKALLAH MILOUD, AMBRISH CHANDRA
11:30- 11:45	200	Compact modeling of I-V characteristics in Al <sub>x</sub> Ga <sub>1-x</sub> N/GaN HEMTs	
		Participant	Nawel KERMAS Tiaret university
		Co-authors	Driss BOUGUENNA
11:45- 12:00	220	Device Performance of AlGaN/AlN/GaN MIS HEMTs with La <sub>2</sub> O <sub>3</sub> high $\kappa$ as Gate Dielectric Insulator Layer	
		Participant	Khaled HEBALI University Mustapha Stambouli of Mascara
		Co-authors	DRISS BOUGUENNA, ABBES BELOUFA
12:00- 12:15	3	Study of the Energy Levels in The Structure of The Laser Diode GAINP/ALGAINP	
		Participant	Abdelali LAID Sidi Bel Abbes University
		Co-authors	ABID HAMZA
12:15- 12:30	118	Modeling and numerical simulation of a of Eco-Friendly CH <sub>3</sub> NH <sub>3</sub> SnI <sub>3</sub> -based Perovskite Solar Cell by the SCAPS1-D simulator	
		Participant	Selma RABHI University of Medea
		Co-authors	ABDLEHADI SLAMI, FATIMA ZAHRA SAIDOUNE, KARIMA DADDA
12:30- 12:45	402	PANI/ZnO for Optical Applications: Synthesis and Characterization	
		Participant	Faiza CHOULI University Mustapha Stambouli of Mascara
		Co-authors	ABDELGHANI BENYOUCEF, SAMIA DAIKH, AMINA BEKHOUKH



## ROOM F: Biomedical Engineering (VIRTUAL)

Session Chairmen	<b>Dr. Ibrahim Farouk BOUGUENNA</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Khadidja GOUIZI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Ahmed BOUDAA</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Abderrahmane LOUNI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria					
	<b>ID</b>					
09:00- 09:15	57	ECG-Based Biometric System using TinyML: Implementation and Performance Evaluation on ESP32 <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Hatem ZEHIR <span style="float: right; font-size: small;">Badji Mokhtar University, Annaba</span></td> </tr> <tr> <td>Co-authors</td> <td>TOUFIK HAFS, SARA DAAS</td> </tr> </table>	Participant	Hatem ZEHIR <span style="float: right; font-size: small;">Badji Mokhtar University, Annaba</span>	Co-authors	TOUFIK HAFS, SARA DAAS
Participant	Hatem ZEHIR <span style="float: right; font-size: small;">Badji Mokhtar University, Annaba</span>					
Co-authors	TOUFIK HAFS, SARA DAAS					
09:15- 09:30	102	Gender, Age, and Anthropometric Influences on Rotatory Angles in Load Lifting <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Ali Khan MOAZZAM <span style="float: right; font-size: small;">Ziauddin University, Pakistan</span></td> </tr> <tr> <td>Co-authors</td> <td>MYRA ASLAM QURESHI</td> </tr> </table>	Participant	Ali Khan MOAZZAM <span style="float: right; font-size: small;">Ziauddin University, Pakistan</span>	Co-authors	MYRA ASLAM QURESHI
Participant	Ali Khan MOAZZAM <span style="float: right; font-size: small;">Ziauddin University, Pakistan</span>					
Co-authors	MYRA ASLAM QURESHI					
09:30- 09:45	104	Deep Learning System for Automatic Skull Stripping of Human Brain MRI <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Abdelhai LATI <span style="float: right; font-size: small;">University of Kasdi Merbah Ouargla (UKMO)</span></td> </tr> <tr> <td>Co-authors</td> <td>ZAKARIA MOKADEM, DJALILA BELEKBIR, DJIHENE NECIB AND RAYANE DJABOUREBBI</td> </tr> </table>	Participant	Abdelhai LATI <span style="float: right; font-size: small;">University of Kasdi Merbah Ouargla (UKMO)</span>	Co-authors	ZAKARIA MOKADEM, DJALILA BELEKBIR, DJIHENE NECIB AND RAYANE DJABOUREBBI
Participant	Abdelhai LATI <span style="float: right; font-size: small;">University of Kasdi Merbah Ouargla (UKMO)</span>					
Co-authors	ZAKARIA MOKADEM, DJALILA BELEKBIR, DJIHENE NECIB AND RAYANE DJABOUREBBI					
09:45- 10:45	<b>Poster session 2 &amp; coffee break</b>					
10:45- 11:00	134	A new MRI Brain Tumor Detection and Segmentation approach based on a combination of Thresholding and Generalized Gaussian Mixture Model-EM algorithm <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Khalil Ibrahim LAIREDJ <span style="float: right; font-size: small;">University of Djillali Liabes, Sidi Belabes</span></td> </tr> <tr> <td>Co-authors</td> <td>AMINA BAGDAOUI, SID AHMED BOUCENNA, ZOUAOUI CHAMA</td> </tr> </table>	Participant	Khalil Ibrahim LAIREDJ <span style="float: right; font-size: small;">University of Djillali Liabes, Sidi Belabes</span>	Co-authors	AMINA BAGDAOUI, SID AHMED BOUCENNA, ZOUAOUI CHAMA
Participant	Khalil Ibrahim LAIREDJ <span style="float: right; font-size: small;">University of Djillali Liabes, Sidi Belabes</span>					
Co-authors	AMINA BAGDAOUI, SID AHMED BOUCENNA, ZOUAOUI CHAMA					
11:00- 11:15	148	Cancerous Regions Extraction by Segmentation of Medical Images <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Abdellatif BOUZID-DAHO <span style="float: right; font-size: small;">University of TIZI OUZOU</span></td> </tr> <tr> <td>Co-authors</td> <td>Patrick SIARRY</td> </tr> </table>	Participant	Abdellatif BOUZID-DAHO <span style="float: right; font-size: small;">University of TIZI OUZOU</span>	Co-authors	Patrick SIARRY
Participant	Abdellatif BOUZID-DAHO <span style="float: right; font-size: small;">University of TIZI OUZOU</span>					
Co-authors	Patrick SIARRY					
11:15- 11:30	152	Voice pathology detection along feature distribution and normal distribution Study case: Parkinson disease <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Djamila MEGHRAOUI <span style="float: right; font-size: small;">University of Science and Technology Houari Boumediene</span></td> </tr> <tr> <td>Co-authors</td> <td></td> </tr> </table>	Participant	Djamila MEGHRAOUI <span style="float: right; font-size: small;">University of Science and Technology Houari Boumediene</span>	Co-authors	
Participant	Djamila MEGHRAOUI <span style="float: right; font-size: small;">University of Science and Technology Houari Boumediene</span>					
Co-authors						
11:30- 11:45	163	Efficient Statistical Approach for Combining Multimodal Images Using Wavelet Transform <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Participant</td> <td>Abdallah BENGUEDDOUDJ <span style="float: right; font-size: small;">University of bordj bou arreridj</span></td> </tr> <tr> <td>Co-authors</td> <td>MERWAN SAAD SAOUD, TAREK BENSIDHOUM</td> </tr> </table>	Participant	Abdallah BENGUEDDOUDJ <span style="float: right; font-size: small;">University of bordj bou arreridj</span>	Co-authors	MERWAN SAAD SAOUD, TAREK BENSIDHOUM
Participant	Abdallah BENGUEDDOUDJ <span style="float: right; font-size: small;">University of bordj bou arreridj</span>					
Co-authors	MERWAN SAAD SAOUD, TAREK BENSIDHOUM					

11:45- 12:00	170	Internet of Things based Approach for Detecting Diabetes using Deep Learning Models	
		Participant	Messaoud HAMEURLAINE Tissemsilt Univesrsity
		Co-authors	
12:00- 12:15	6	Facial kinship Verification using Siamese Neural Network	
		Participant	Abdelhakim CHERGUI Ouargla University
		Co-authors	NOUR EL HOUDA BOUAKAL, BRAHIM MELLAH, MESSAOUD HETTIRI, SALIM OUCHTATI
12:15- 12:30	40	Muscle movement detection	
		Participant	Fatima Ezahraa BARKAT Oran1 Ahmed Ben Bella University
		Co-authors	DJAMILA BOUBEKEUR, MOHAMMED EL AMINE CHERIET
12:30- 12:45	300	Development of GaN MOS-HEMTs transistors-based biosensors for the detection of a novel SARS-Cov-19 Virus	
		Participant	Faiza MOUFFOKI University Mustapha Stambouli of Mascara
		Co-authors	Driss BOUGUENNA
12:45- 13:00	157	Detection of Spasmodic Dysphonia Voice Pathology using Deep Learning	
		Participant	Nardjes MERZOUGUI University Badji Mokhtar Annaba
		Co-authors	MOHAMED CHERIF AMARA KORBA, FETHI AMARA



ROOM G: HIGH VOLTAGE ENGINEERING AND APPLICATIONS (VIRTUAL)						
Session Chairmen	<b>Dr. Youcef Islam DJILANI KOBIBI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Moulay Idriss CHERGUI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Mohammed Fethi BEKKARA</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Maamar YAHIAOUI</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Hocine BOUCHEKARA</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria					
	<b>ID</b>					
09:15- 09:30	<b>61</b>	Utilizing Convex Optimization for State and Unknown Input Estimation in Polytopic Models <table border="1"> <tr> <td>Participant</td> <td>Khalida MIMOUNE University of Biskra</td> </tr> <tr> <td>Co-authors</td> <td>MOHAMED YACINE HAMMOUDI, SOURI MOHAMED MIMOUNE</td> </tr> </table>	Participant	Khalida MIMOUNE University of Biskra	Co-authors	MOHAMED YACINE HAMMOUDI, SOURI MOHAMED MIMOUNE
Participant	Khalida MIMOUNE University of Biskra					
Co-authors	MOHAMED YACINE HAMMOUDI, SOURI MOHAMED MIMOUNE					
09:30- 09:45	<b>83</b>	Dual-Stage Grid Connected Boost-Modular Multilevel Converter with MPPT Fuzzy Logic Controller for Solar System <table border="1"> <tr> <td>Participant</td> <td>Imane ALIA Ziane Achour University, Djelfa</td> </tr> <tr> <td>Co-authors</td> <td>IMAD MERZOUK</td> </tr> </table>	Participant	Imane ALIA Ziane Achour University, Djelfa	Co-authors	IMAD MERZOUK
Participant	Imane ALIA Ziane Achour University, Djelfa					
Co-authors	IMAD MERZOUK					
09:45- 10:45	<b>Poster session 2 &amp; coffee break</b>					
10:45- 11:00	<b>86</b>	Application of Deep Learning and Markov Chains Approachs for ICS security in Smart Grids based zero trust model <table border="1"> <tr> <td>Participant</td> <td>Nousseiba GUERGOURI University of Constantine 2 Abdelhamid Mehri</td> </tr> <tr> <td>Co-authors</td> <td>NABIL SAHLI, MOHAMED BENMOHAMMED, LYES KHOUKHI</td> </tr> </table>	Participant	Nousseiba GUERGOURI University of Constantine 2 Abdelhamid Mehri	Co-authors	NABIL SAHLI, MOHAMED BENMOHAMMED, LYES KHOUKHI
Participant	Nousseiba GUERGOURI University of Constantine 2 Abdelhamid Mehri					
Co-authors	NABIL SAHLI, MOHAMED BENMOHAMMED, LYES KHOUKHI					
11:00- 11:15	<b>100</b>	Fuzzy Logic and Neural Network Control of Unified Power Flow Controller Systems (UPFC) <table border="1"> <tr> <td>Participant</td> <td>Benyekhlef LAROUCI University Kasdi Merbah Ouargla</td> </tr> <tr> <td>Co-authors</td> <td>AYAD AHMED NOUR ISLEM</td> </tr> </table>	Participant	Benyekhlef LAROUCI University Kasdi Merbah Ouargla	Co-authors	AYAD AHMED NOUR ISLEM
Participant	Benyekhlef LAROUCI University Kasdi Merbah Ouargla					
Co-authors	AYAD AHMED NOUR ISLEM					
11:15- 11:30	<b>110</b>	Enhancing the Potential of PEMFC EVs with Cutting-Edge FOPI Control based PDO Algorithm for a Three-Phase Interleaved Boost Converter <table border="1"> <tr> <td>Participant</td> <td>Salah OKBA University of Biskra</td> </tr> <tr> <td>Co-authors</td> <td>RAMZI SAADI, MOHAMED YACINE HAMMOUDI, WAIL HAMDI AND ABIR BETKA</td> </tr> </table>	Participant	Salah OKBA University of Biskra	Co-authors	RAMZI SAADI, MOHAMED YACINE HAMMOUDI, WAIL HAMDI AND ABIR BETKA
Participant	Salah OKBA University of Biskra					
Co-authors	RAMZI SAADI, MOHAMED YACINE HAMMOUDI, WAIL HAMDI AND ABIR BETKA					
11:30- 11:45	<b>155</b>	Influence of the ADALINE extraction method with the fuzzy hysteresis band technique applied to the UPQC filter under DC bus fuzzy control <table border="1"> <tr> <td>Participant</td> <td>Noureddine KHENFAR Djillali Liabes University, Sidi Bel-Abbes</td> </tr> <tr> <td>Co-authors</td> <td>ABEDLHAFID SEMMAH, SIHAM KHELIFA</td> </tr> </table>	Participant	Noureddine KHENFAR Djillali Liabes University, Sidi Bel-Abbes	Co-authors	ABEDLHAFID SEMMAH, SIHAM KHELIFA
Participant	Noureddine KHENFAR Djillali Liabes University, Sidi Bel-Abbes					
Co-authors	ABEDLHAFID SEMMAH, SIHAM KHELIFA					
11:45- 12:00	<b>204</b>	Analysis of Grid-tied Fuel Cell System with Synchronous Reference Frame Control <table border="1"> <tr> <td>Participant</td> <td>Yahia FOUGHALI University of Saida</td> </tr> <tr> <td>Co-authors</td> <td>Mohamed MANKOUR, Mhamed SEKOUR</td> </tr> </table>	Participant	Yahia FOUGHALI University of Saida	Co-authors	Mohamed MANKOUR, Mhamed SEKOUR
Participant	Yahia FOUGHALI University of Saida					
Co-authors	Mohamed MANKOUR, Mhamed SEKOUR					



Samir GHOUALI  
ICAECCT '23  
Général Chair

12:00- 12:15	7	Finite Element Modelling of Electric Field Distribution in Point- Barrier-Plane Air Gaps under Positive Lightning Impulse Voltage: Based on Experimental Tests	
		Participant	Mohamed Abdelghani BENZIADA Ecole Nationale Polytechnique d'Alger
		Co-authors	AHMED BOUBAKEUR, ABDELOUAHAB MEKHALDI

### ROOM H: E-poster Session (VIRTUAL)

Session Chairmen	<b>Dr. Hocine Abdelhak AZZEDDINE</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Benameur AFIF</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Attaouia BENTAHAR</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria <b>Dr. Isma HATRAF</b> Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria
	<b>ID</b>

#### Topic 1: Control Systems, Robotics and Automation

09:00- 09:10	69	Chaotic Blended Biogeography-Based Optimization for Parameter Estimation of Induction Machine	
		Participant	Naas DIF University of Djelfa
		Co-authors	EL-GHALIA BOUDISSA, FATIHA HABBI, MOHAMED BOUNEKHLA
09:10- 09:20	79	Enhancing the Power Quality of Grid-Connected Wind Systems through Multicell Converters	
		Participant	Karim BELALIA University of Relizane
		Co-authors	ABDELKADER MOSTEFA, SOFIANE MIHOUBI, HOUARI MERABET BOULOUIHA
09:20- 09:30	160	Backstepping Control of a Direct Driven PMSG wind Turbine	
		Participant	Hamid AOUJEREGBA University Mustapha Stambouli of Mascara
		Co-authors	AHMED TAHOUR
09:30- 09:40	254	Employ the Adaptive Neuro-Fuzzy inference system ANFIS for Improve the Direct Torque Control	
		Participant	Abdelhaq LAOUFI University Mustapha Stambouli of Mascara
		Co-authors	MOULAY-IDRISS CHERGUI, SOUFYANE CHEKROUN

09:45- 10:45

### Poster session 2 & coffee break

#### Topic 2: Electronics and its Applications

10:45- 10:55	27	Thermal Simulation in Intertwined Planar Micro-Transformer	
		Participant	Yamina BENGHADDA USTO, Oran
		Co-authors	M. DERKAOUI, K. MENDAZ, H. KHARBOUCH

11:05- 11:15	35	Integrated Octagonal On-Chip Inductor in DC-DC Buck Converter for Photovoltaic Applications	
		Participant	Mokhtaria DERKAOUI National Higher School of Telecommunications & ICT of Oran
		Co-authors	YAMINA BENHADDA, AZZEDINE HAMID
11:15- 11:25	36	Monolithic Micro-Transformer Magneto-Thermal Behaviour for MEMS	
		Participant	Mokhtaria DERKAOUI National Higher School of Telecommunications & ICT of Oran
		Co-authors	YAMINA BENHADDA, AZZEDINE HAMID
11:25- 11:35	37	Using spectroscopic ellipsometry to extract the electrical properties of AZO thin films deposited by DC reactive sputtering in various temperature	
		Participant	Toufik DIB University of Jijel
		Co-authors	BOUBEKEUR BIROUK
<b>Topic 3: Telecommunications and its Applications</b>			
11:35- 11:45	92	Localization of Mobile Robots with Global Position System Sensor	
		Participant	Wahiba MENASRI University of Yahia Farès Médéa
		Co-authors	AMINA YAHIA, ABDELKADER MORSLI, MOHAMED LAMINE MOUHOUBI, AKIL BATTACHE, ABDEREZZAK GACEMI
11:45- 11:55	154	An Ultrathin Metamaterial Absorber for Conformal Applications at Ka Frequency Band	
		Participant	Ghada MEBARKI University of Tlemcen
		Co-authors	NAIMA BENMOSTEFA
11:55- 12:05	87	An IoT-based System to Control the Greenhouse's Microclimate	
		Participant	Noureddine SEDDIKI University of tahri Mohamed Bechar
		Co-authors	KAMAL ABDELMADJID MOKEDDEM
<b>Topic 4: Biomedical Engineering</b>			
12:05- 12:15	98	Application Crow Search Algorithm (CSA) with the Empirical Mode Decomposition (EMD) method on Phonocardiogram (PCG) signals for Efficient Noise Suppression	
		Participant	Mohamed ROUIS University of Djilali Bounaama-Khemis Miliana
		Co-authors	SALIM SBAA, AYOUB TAALLAH, BOUNIF AOUDA
12:25- 12:35	165	ANN for Medical Image Denoising	
		Participant	Nail ALAOUI University ZIANE Achour de Djelfa
		Co-authors	SOFIAN KIRECH, RANIA IBTISSEM BENMLOUKA, SOUAD KSENNA, LAKHDAR BOUHAMLA, ABDALLAH AZZOUC
<b>Topic 5: High Voltage Engineering and Applications</b>			
12:35- 12:45	259	Multiphysics Simulation of Submicron Particle Behaviour Inside a Novel Multicylinder Electrostatic Precipitator (MCESP)	
		Participant	Fouad Kherbouche University Mustapha Stambouli of Mascara
		Co-authors	

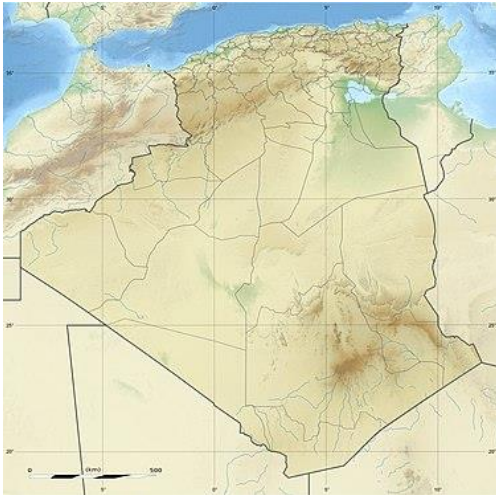
# The Venue



## MASCARA, ALGERIA

### ABOUT

Mascara (Arabic: معسكر, romanized: Mu'askar) is the capital city of Mascara Province. It has 150,000 inhabitants (2008 estimate). It was founded in the 10th century by the Banu Ifran, a Berber tribe and was the capital city of Emir Abd al-Qadir, a leader of the Algerian resistance to early French colonial rule. Mascara is an administrative, commercial and a market centre. Its trade is mostly centered on leather goods, grains, and olive oil, but it is especially famous for its good wine. It has good road and rail connections with other urban centres of Algeria. Relizane is 65 kilometres (40 miles) northeast, Sidi Bel Abbes 90 km (56 mi) southwest, Oran 105 kkm northwest and Saïda 80 km (50 mi) south.



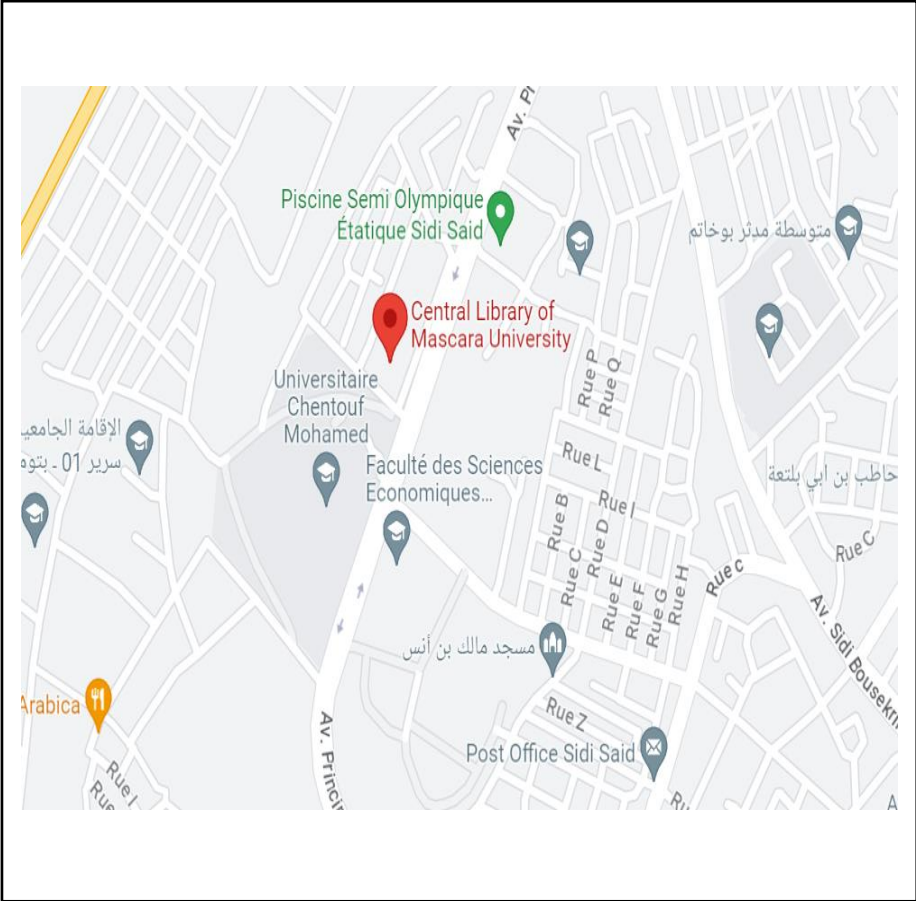
### EMIR ABDELKADER

Abdelkader ibn Muhieddine (6 September 1808 – 26 May 1883; Arabic: عبد القادر ابن محي الدين 'Abd al-Qādir ibn Muḥy al-dīn), known as the Emir Abdelkader or Abdelkader El Hassani El Djazairi, was an Algerian religious and military leader who led a struggle against the French colonial invasion of Algiers in the early 19th century. As an Islamic scholar and Sufi who unexpectedly found himself leading a military campaign, he built up a collection of Algerian tribesmen that for many years successfully held out against one of the most advanced armies in Europe.

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