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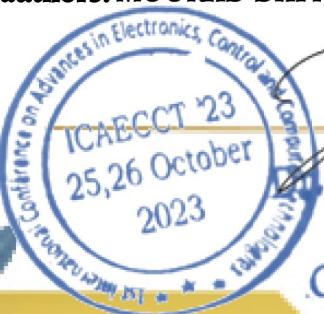
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Optimal Power Flow Solution using QPSODM Algorithm

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Optimal Power Flow Solution using QPSODM Algorithm

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ABSTRACT

Performing an optimal power flow (OPF) represents an indispensable and complex optimization problem in power systems. From an optimization point of view, the OPF problem implicates the minimization of some objectives. OPF problem is expressed with all pertinent parameters of the power system including generator outputs to get the optimal settings. The power system can include of conventional fossil generators as well as renewable energy sources (RES) such as solar and wind. Classical OPF is considered as a highly non-linear complex problem. The integration of an intermittent source of RES increases the complexity of the problem. In this paper, Quantum-behaved particle swarm optimization differential mutation (QPSODM) algorithm is proposed to solve the OPF problem by combining stochastic wind and solar power with conventional thermal power generators in the system. The objective to be minimized is total generation cost taking into account the tax imposed on the carbon emission by conventional thermal generators. The proposed approach has been examined and confirmed on the modified IEEE 30-bus. Simulation results show that the proposed approach can solve the OPF effectively and can give best and logic results.

KEY WORDS

optimal power flow (OPF); renewable energy sources (RES); generation cost; QPSODM algorithm; Uncertainty

I. INTRODUCTION

Optimal power flow (OPF) is a typical operation problem of power systems. The traditional OPF usually focus on minimizing the overall operating cost of thermal power generators. However, thermal power generators release massive pollutants during operation. Therefore, emission reduction has become one of the most notable hotspot issues. Under this background, power systems need to minimize the emission of pollutants while operating economically. In recent times, RES penetration has drastically increased in the power system. The penetration of RESs has introduced many challenges to the power system. The intermittent nature of RESs makes the system more complex in terms of operation and control. The uncertain nature of RESs is required to be accurately modeled to examine the dynamic functioning of the power system. Due to its unpredictable nature, protection schemes need to be updated for operating the power system in a secure region. [1] designing and realizing an acquisition system for a small wind turbine has been presented. [2] presents a simulation model of all the electrical components constituting a PV (Photovoltaic) power plant connected to distribution network. Impact analysis of the integration of RES (Solar and Wind) into power system are investigated in [3-7]. In a power system, the main aim is to operate it with optimal cost and simultaneously satisfy the operating and security constraints. The OPF determines the optimal control settings by the satisfying system and security constraints to economically operate. A significant amount of research has been carried out in the domain of OPF with the incorporation of RESs in the power system using both deterministic and meta-heuristic optimization algorithms. The gradient method is proposed [8] to develop the dynamic OPF to include wind farms without considering the costs of wind power. For solving the OPF model

in the presence of a wind plant, the authors [9] used the Newton method and interior-point methods. The uncertain nature of wind power has been estimated and is added to the overall cost function. However, deterministic methods are problem-specific, exhibit poor convergence characteristics, and are stuck at local optima points. Moreover, these methods are unable to solve real-world optimization issues. To overcome the drawbacks of deterministic methods, meta-heuristic methods have been introduced. [10] applied MO-OPF using differential evolution (DE) to minimize three objective functions simultaneously, while [11] considered the MO-OPF problem using a genetic algorithm (GA) depending on the strength Pareto method. [12] solved MO-OPF using PSO to minimize fuel cost and power losses emission. Conventional OPF solely considers thermal energy sources but growing fuel prices and environmental impact have prompted governments to investigate renewable energy sources such as wind, solar, and wave energy [13, 14]. Wind and solar energy penetration need to be addressed in the electrical system. As to attain the optimal operation for an electrical system with solar and wind energy sources, it is required to include wind generating costs such as penalty and reverse cost into the normal OPF problem, and this issue is called the stochastic optimal power flow (SCOPF) [15]. [16] applied the SCOPF problem for a system that includes thermal and wind energy sources based on Weibull PDF. [17] applied the SCOPF problem for a system that includes thermal, wind, and solar energy sources.

II. MATHEMATICAL FORMULATION

Generally, the electrical system operator (ESO) has different objectives to be minimized as power loss and cumulative voltage deviation of load buses from their required values. The interaction of these objectives makes it a challenging reaching both targets. Therefore, the form of OPF problem is defined mathematically as follows:

$$\begin{aligned} & \text{Min } F(X, U) \\ & \text{subject to: } \begin{cases} H(X, U) = 0 \\ G(X, U) \leq 0 \end{cases} \end{aligned} \quad (1)$$

Where X is the set of control (independent) variables, U is the set of state (dependent) variables. $F(X, U)$ is the objective function of OPF, $H(X, U)$ is the equality constraints and $G(X, U)$ is the inequality constraints.

A. CONTROL VARIABLES

The control variables vector is defined as follows:

$$X = [Pg_2, \dots, Vg_{ng}; Vg_1, \dots, Vg_{ng}; T_1, \dots, T_{nT}; Qc_1, \dots, Qc_{nc}] \quad (2)$$

Where Vg_i is the voltage magnitude of the i^{th} generator bus, Qc_i is the shunt compensator banks of the i^{th} bus and T_i is the i^{th} transformer tap changer (OLTC). ng , nT and nc are the number of generating units, transformers and compensator banks, respectively. The transformer tap settings and shunt compensator banks are considered as discrete variables.

B. STATE VARIABLES

The vector of state variables can be defined as follows:

$$U = [Pg_1; Vl_1, \dots, Vl_{N_D}; Sl_1, \dots, Sl_{N_l}; Qg_1, \dots, Qg_{ng}] \quad (3)$$

Where Vl_i is the voltage of i^{th} loadbus and Sl_i is the loading of i^{th} line. Qg_i is the reactive power of the generator of the bus i , N_D is the number of loadbus, N_l is the number of branches in the power system.

C. COST MODEL OF THERMAL GENERATORS

Thermal generators use fossil fuel for operating. The combination between fuel cost (\$/h) and produced power (MW) can be written by the quadratic relation:

$$C_{T0}(P_{TG}) = \sum_{i=1}^{N_{TG}} a_i + b_i P_{TGi} + c_i P_{TGi}^2 \quad (4)$$

Where a_i , b_i , c_i are the cost coefficients of the thermal generator i generating power output P_{TGi} . Where the number of thermal generators is N_{TG} . Valve-point effect needs to be considered for more realistic and precise modelling of cost function. The thermal generating units with multi-valve steam turbines exhibit a greater variation in the fuel-cost functions. The valve loading effect of multi-valve steam turbines is modelled as sinusoidal function, the absolute value of which is added to the basic cost function in Eq. (4). Total generation cost (\$/h) of thermal units becomes:

$$C_T(P_{TG}) = \sum_{i=1}^{N_{TG}} a_i + b_i P_{TGi} + c_i P_{TGi}^2 + |d_i \cdot \sin(e_i \cdot (P_{TGi}^{min} - P_{TGi}))| \quad (5)$$

Where, d_i and e_i are the coefficients that represent the valve-point loading effect. P_{min} is the minimum power the i^{th} thermal unit generates when in operation. All cost and emission coefficients for the thermal generating units used in the calculations are provided in Table 1.

Table 1. Cost and emission coefficients of thermal generators for IEEE-30 bus [18]

Bus	Generator	a	b	c	d	e	α	β	γ	ω	μ
1	TG ₁	0	2	0.00375	18	0.037	4.091	-5.554	6.49	0.0002	6.667
2	TG ₂	0	1.75	0.0175	16	0.038	2.543	-6.047	5.638	0.0005	3.333
8	TG ₃	0	3.25	0.00834	12	0.045	5.326	-3.55	3.38	0.002	2

D. EMISSION AND CARBON TAX

It is well known that generating power from conventional sources of energy emits harmful gases into the environment. The emission of Sulfur oxides (SO_x) and Nitrogen oxides (NO_x) increases with increase in generated power from thermal power generators following the relationship in Eq. (6). Emission in tonnes per hour (t/h) is calculated by:

$$E = \sum_{i=1}^{N_{TG}} [(\alpha_i + \beta_i P_{TGi} + \gamma_i P_{TGi}^2) \times 0.01 + w_i e^{(\mu_i P_{TGi})}] \quad (6)$$

Where, α , β , γ , ω and μ are all emission coefficients corresponding to the i^{th} thermal generator. Emission coefficients for the thermal generating units are provided in Table 1. The coefficients are same as in [18].

In recent years, due to global warming, many countries are putting enormous pressure on entire energy industry to reduce carbon emission [19]. To encourage investment in cleaner forms of power like wind and solar, carbon tax (C_{tax}) is imposed on per unit amount of emitted greenhouse gases. The cost of emission in (\$/h) is represented as:

$$C_E = C_{tax} E \quad (7)$$

The objective of OPF is formulated incorporating all the cost functions as discussed above. In first objective, emission cost is not included. To study the change in generation scheduling when carbon tax is imposed, second objective function is adopted by adding the emission cost.

Objective function 1

$$F_1 = C_T(P_{TG}) \quad (8)$$

Objective function 2

$$F_2 = F_1 + C_{tax} E \quad (9)$$

The OPF optimisation is subject to some system equality and inequality constraints.

E. EQUALITY CONSTRAINTS

The power balance equations can be expressed as follows:

$$P_{g_i} - P_{d_i} = V_i \sum_{j=1}^{N_b} V_j [G_{ij} \cos(\theta_i - \theta_j) + B_{ij} \sin(\theta_i - \theta_j)] \quad (10)$$

$$Q_{g_i} + Q_{c_i} - Q_{d_i} = V_i \sum_{j=1}^{N_b} V_j [G_{ij} \sin(\theta_i - \theta_j) - B_{ij} \cos(\theta_i - \theta_j)] \quad (11)$$

Where N_b is the number of buses. Pd , Qd are active and reactive load demand, respectively. Pg , Qg are active and reactive power of generators connected to bus i , respectively. G_{ij} is the conductance and B_{ij} is the susceptance connecting the buses i and j , respectively.

F. INEQUALITY CONSTRAINTS

The operational limits of the equipment must be kept in a predetermined range and can be expressed as follows:

Generator constraints:

$$\begin{cases} Pg_i^{max} \geq Pg_i \geq Pg_i^{min} \forall i \in ng \\ Qg_i^{max} \geq Qg_i \geq Qg_i^{min} \forall i \in ng \end{cases} \quad (12)$$

Transformer constraints:

$$T_i^{max} \geq T_i \geq T_i^{min} \forall i \in nT \quad (13)$$

Shunt compensator constraints:

$$Qc_i^{max} \geq Qc_i \geq Qc_i^{min} \forall i \in nc \quad (14)$$

Security constraints:

$$\begin{cases} V_i^{max} \geq V_i \geq V_i^{min} \forall i \in N_b \\ Sl_i^{max} \geq |Sl_i| \forall i \in N_l \end{cases} \quad (15)$$

III. RENEWABLE ENERGY SOURCE UNCERTAINTY MODELS

The probability of wind speed v (m/s) following Weibull distribution with shape factor (k) and scale factor (c) can be expressed by:

$$f_w(v) = \left(\frac{k}{c}\right) \left(\frac{v}{c}\right)^{k-1} \exp\left[-\left(\frac{v}{c}\right)^k\right] \quad (16)$$

Actual output power from wind turbines depends on the wind speed. Power output of a turbine as a function of wind speed (v) can be described as follows [20, 21]:

$$P_w(v) = \begin{cases} 0 & v < v_{in} \text{ and } v > v_{out} \\ P_{wr} \left(\frac{v - v_{in}}{v_r - v_{in}}\right) & v_{wr} \geq v \geq v_{in} \\ P_{wr} & v_{out} \geq v \geq v_{wr} \end{cases} \quad (17)$$

Where $P_w(v)$ is wind output power in (MW), v is the wind speed in (m/s), P_{wr} is the rated output wind power, and v_{in} , v_{out} , v_r are the cut-in, cut-out and rated wind speed, respectively.

PV solar irradiance is unpredictable and intermittent due to weather variations. The probability Beta Distribution Function (BDF) is used to describe the random phenomenon of the irradiance data for each unimodal, as follows:

$$PR_s(G) = \begin{cases} \frac{\Gamma(a+b)}{\Gamma(a)\Gamma(b)} G^{(a-1)} & \text{for } 0 \leq G \leq 1000 \text{ and } a, b \geq 0 \\ 0 & ; \text{ Otherwise} \end{cases} \quad (18)$$

Where a and b are the parameters of the Beta function, Γ is the Gamma function. In order to calculate the parameters of the BDF, the mean μ_s and standard deviation σ_s of the random variable G are used as follows:

$$a = \frac{\mu_s b}{1 - \mu_s} \quad \text{and} \quad b = (1 - \mu_s) \left(\frac{\mu_s(1 + \mu_s)}{\sigma_s^2} - 1 \right) \quad (19)$$

The solar irradiance to energy conversion function of the PV system can be expressed as follows:

$$P_s(G) = \begin{cases} 0 & G = 0 \\ P_{sr} \left(\frac{G^2}{R_c G_{std}} \right) & R_c > G > 0 \\ P_{sr} \left(\frac{G}{G_{std}} \right) & G \geq R_c \end{cases} \quad (20)$$

Where G is the solar irradiance in (W/m^2), G_{std} is the solar irradiance in standard environment set as $1000 W/m^2$. R_c presents a certain irradiance point set as $150 W/m^2$. P_{sr} is the rated output power of the PV system. Here, it is assumed that the temperature of PV cell is neglected and the PV output power is mainly subordinated on the irradiance [20, 21].

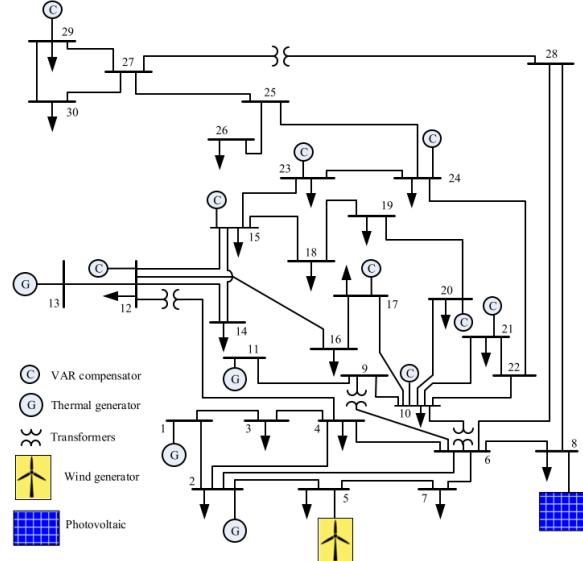


Fig. 1. Single line diagram of the modified IEEE 30 bus system.

A. MODIFIED IEEE 30 BUS SYSTEM

The IEEE 30-bus system involves 6 generators, 41 lines, 4 transformers that are located at lines 6-9, 4-12, 9-12 and 27-28. 9 reactive compensators are installed at buses 10, 12, 15, 17, 20, 21, 23, 24 and 29. The single line diagram of

the system under study is shown in Fig. 1. In our case study of IEEE-30 bus system, conventional generators in bus 5 and bus 8 are replaced by wind farm and solar plant, respectively.

Minimum and maximum limit settings for, bus voltage, generators voltages, tap transformers are provided in Table 2.

Table 2. Description of system under study

Description	IEEE 30-bus
Buses	30
Generators	6
Transformers	4
Shunt capacitors	9
Load buses	19
P_{load} (MW)	283.4
Q_{load} (MVar)	126.2
Initial P_{loss} (MW)	5.812
Generators voltage (pu)	[0.95 - 1.10]
Load bus voltage (pu)	[0.94 - 1.06]
OLTC setting (pu)	[0.90 - 1.10]

Upper and lower limits of real and reactive power generations are given in Table 3.

Table 3. Generators data of the modified IEEE 30 bus test

Bus	P_g (MW)	P_{gmin} (MW)	P_{gmax} (MW)	Q_{gmin} (MVar)	Q_{gmax} (MVar)
1	Slack	50	200	-20	150
2	80	20	80	-20	60
5	50	15	50	-15	62.5
8	20	10	35	-15	48.7
11	20	10	30	-10	40
13	20	12	40	-15	44.7

Wind speed and solar irradiance distributions with corresponding parameters are displayed in Fig. 2.(a) and Fig. 2.(b), respectively.

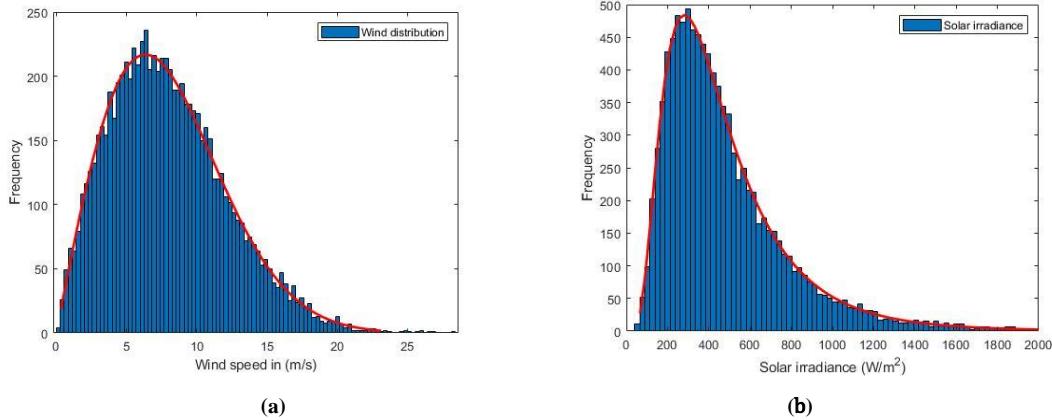


Fig. 2. RES distribution: (a) Wind speed ($c = 9.9$, $k = 2.5$). (b) Solar irradiance ($a = 17.5$, $b = 1.3$).

IV. QPSODM ALGORITHM FORMULATION

In this section, PSO and quantum-behaved PSO (QPSO) search algorithm are described first, followed by QPSODM algorithm, the constraints handling is also defined. The complete and detailed description of the algorithm can be found in [20, 21]. A QPSO which include differential mutation (QPSODM) algorithm for solving the ORPD problem is proposed. The main purpose of including differential mutation part in the QPSO algorithm is for improving the global search capability.

The differential mutation (DM) process is performed on each agent of the following vector,

$$x_{i,j}^t = x_{i,j}^t + f_m(x_{a,c}^t - x_{b,d}^t); i = 1,2,\dots,m \text{ & } j = 1,2,\dots,n. \quad (21)$$

Where f_m is called (mutation factor), this factor is utilized for adjusting the perturbation size in the mutation operation as well as improving the convergence of the algorithm. a and b are random integers uniformly chosen from the range $[1, 2, \dots, m]$. c and d are randomly chosen with uniform distribution between the range $[1, 2, \dots, n]$. In Eq. (21), the term $f_m(x_{a,c}^t - x_{b,d}^t)$ is called differential part. The description of the proposed algorithm is abstracted here below.

Step 1: Create particles with random positions and set the P_{best} position of each particle as $P_{best,i}^0 = x_{best,i}^0$.

Step 2: Set the generation counter as $t = 1$.

Step 3: Compute the mean best position M for all particles.

Step 4: For each particle, compute the objective function $f(x_i^t)$, constraint function and constraint handling by using the Eqs. If $(x_i^t) < f(x_i^{t-1})$, then $P_{best,i}^t = x_i^t$ and $f(P_{best,i}^t) = f(x_i^t)$.

Step 5: Select the current G_{best} position G_{best}^t .

Step 6: For each particle, select the stochastic value $\Omega_{i,j}^t$.

Step 7: Update each agent of the current position $x_{i,j}^{t+1}$.

Step 8: For each agent of new position $x_{i,j}^{t+1}$, perform the DM operation with mutation probability P_m , and then return to Step 2.

The flowchart of the proposed algorithm is shown in Fig. 3.

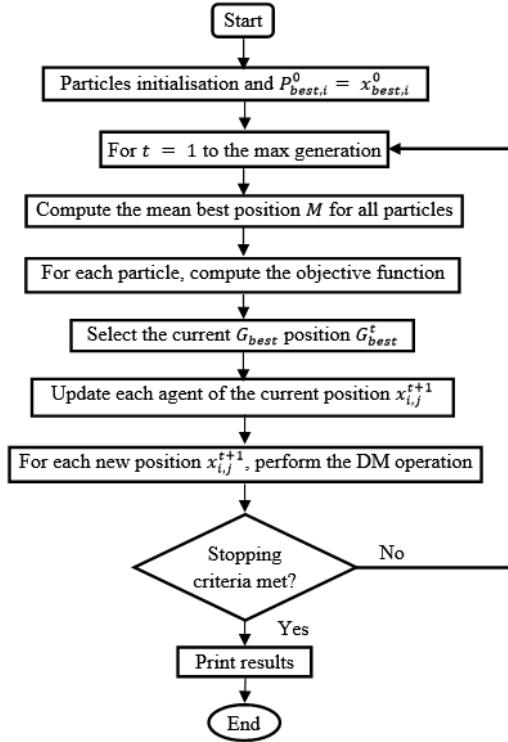


Fig. 3. Flowchart of the proposed method.

V. SIMULATION RESULTS

Several case studies are performed for adapted IEEE-30 bus system. Results of the case studies with application of QPSOMD algorithm are treated in this section. In each optimization case study, a maximum of 400 iterations are performed in a single run of the algorithm. Each simulation is run several times and the best value of the objective function corresponds to the settings of the control variables are recorded.

A. CASE I: MINIMIZATION OF THE GENERATION COST

This case performs optimization of generation planning for all thermal and renewable source generators to minimize total generation cost given by Eq. (8). PDF parameters are taken from [20, 21] and provided in Fig. 2a and Fig. 2b.

The convergence of QPSOMD algorithm is indicated in Fig. 4. As can be seen from the curve, the optimum cost is achieved within about 100 iterations. Optimum settings of all control variables, generator reactive power (Q), total generation cost and other useful calculated parameters are summarized in Table 4. Voltage V_i in the table signifies the voltage at bus i , Ploss and CVD are calculated using Eqs. as in [20, 21]. According to the generation schedules tabulated in the Table 4, minimum generation cost that can be achieved is 787.29 \$/h.

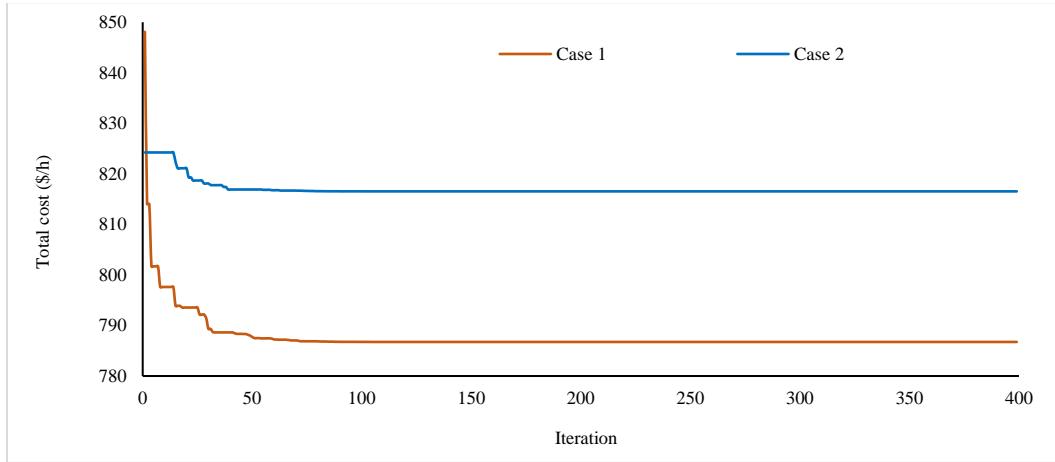


Fig.4. Optimization convergence for Case 1 and Case 2.

B. CASE 2: MINIMIZATION OF GENERATION COST WITH CARBON TAX

This case study minimizes total generation cost that includes carbon tax imposed on the emission from conventional thermal power generators. The total cost, given by Eq. (9), is to be minimized. Carbon tax rate (C_{tax}) is assumed to be 20 \$/tonne as in [19]. As wind and solar power are clean form of energy, the integration of these sources should be increased due to the carbon tax rate. Optimum generation schedule, generator reactive power, total generation cost with carbon tax and other calculated parameters are tabulated in Table 4.

Table 4. Simulation results for the different cases – Modified IEEE 30-bus system

Control Variables	Min	Max	Case 1	Case 2	Parameters	Min	Max	Case 1	Case 2
Pg1 (MW)	50	200	134.91	124.37	Qg1 (MVar)	-20	150	-2.1968	-2.5787
Pg2 (MW)	20	80	30.997	35.517	Qg2 (MVar)	-20	60	12.023	12.712
Pw5 (MW)	0	50	45.09	47.277	Qg5 (MVar)	-15	62.5	22.417	22.851
Pg8 (MW)	10	35	10	10	Qg8 (MVar)	-15	48.7	40	35.614
Pg11 (MW)	10	60	38.03	39.764	Qg11 (MVar)	-10	40	30	30
Ps13 (MW)	0	40	30.125	31.757	Qg13 (MVar)	-15	44.7	14.786	17.122
V1 (p.u)	0.95	1.10	1.0722	1.0713	Tot Cost (\$/h)	-	-	787.29	798.1
V2 (p.u)	0.95	1.10	1.0574	1.0579	Emission (t/h)	-	-	1.7616	0.9356
Vw5 (p.u)	0.95	1.10	1.0356	1.0368	Ploss (MW)	-	-	5.7504	5.2856
V8 (p.u)	0.95	1.10	1.0999	1.0406	CVD (p.u)	-	-	0.45261	0.46568
V11 (p.u)	0.95	1.10	1.0984	1.0982					
Vs13 (p.u)	0.95	1.10	1.0479	1.0541					

It can be noted that the integration of both solar and wind energy is higher when carbon tax is imposed in Case 2 than in Case 1 (no penalty on emission). As expected, the magnitude of the increase in the optimal production schedule of RES depends on the volume of emissions and the rate of the carbon tax imposed.

In OPF problem, constraint on load bus voltage is also critical as operating voltages of load buses are often found be close to their limits. In this paper, the load bus voltage must be maintained within [0.95 and 1.05] p.u. The voltage profiles of load buses are drawn in Fig. 5 for Case 1 and Case 2. From this figure, the two curves are almost similar.

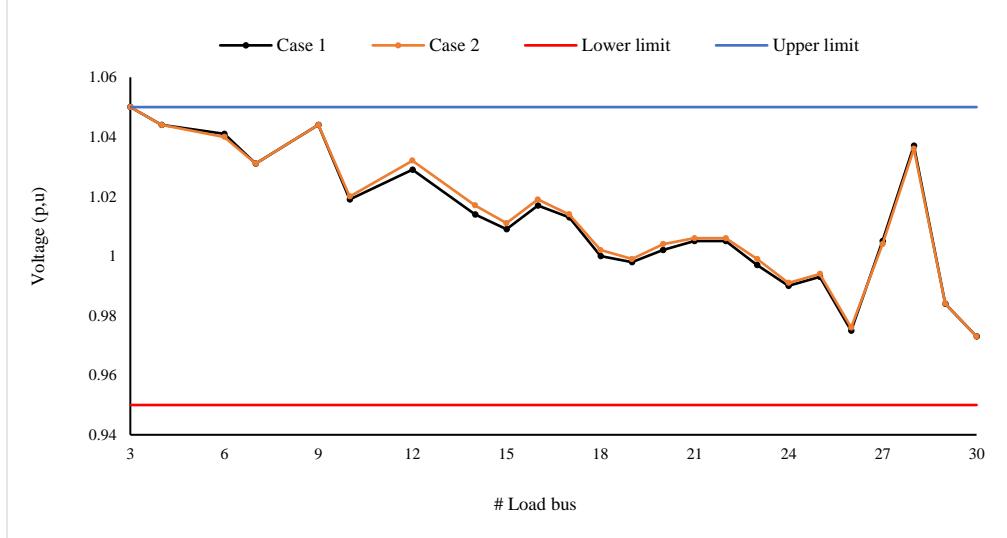


Fig.5. Load bus voltage profiles for Case 1 and Case 2.

Table 5. Comparison of results with previous published methods

Case	Objective functions	MOEA/D [22]	NSGA-[22]	MOPSO [22]	MOEA [23]	MA [24]	MTLBO [25]	TLBO [25]	Proposed method
Case 1	Tot Cost (\$/h)	799.0263	-	-	798.6845	801.84	-	-	787.290
Case 2	Tot Cost (\$/h)	799.29	799.41	801.33	794.0907	838.81	801.8925	801.9908	798.100

Table 5 compares the obtained results by the proposed algorithm QPSODM with some previously published results on OPF solution. According to this, the proposed algorithm can achieve better and logical results comparing with published algorithms reported in [22-25]. Actually, the comparison of the results depends not only on the algorithm used, but also on the utilised limit values (generator voltage, OLTC and shunt compensator value) as well as the constraints handling technique.

VI. CONCLUSION

This paper proposes a solution approach to the OPF problem considering stochastic solar photovoltaic and wind integration into the power system. Uncertainties are modelled with different probability density functions are used to model the uncertainty of intermittent renewable energy sources. Total generation cost taking into account the tax imposed on the carbon emission by conventional fossil generators is studied. Moreover, due to best convergence of the QPSODM algorithm to global optima, it can successfully be applied to other multimodal and highly non-linear optimization problems. The proposed QPSODM is applied for obtaining improved solutions to global optimization for OPF problems.

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ACCEPTANCE LETTER

Dear Pr. Mourad Naidji,

Paper ID: 12

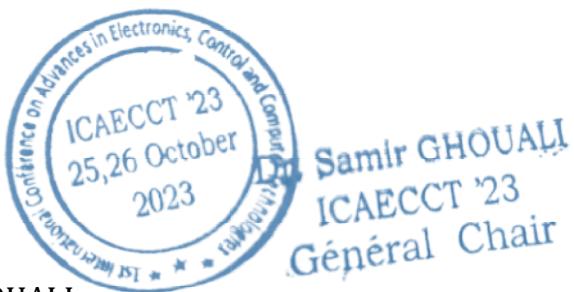
We are pleased to inform you that your paper entitled:

"Optimal Power Flow Solution using QPSODM Algorithm"

has been accepted for "**Oral**" presentation in the 1st International Conference on Advances in Electronics, Control and Computer Technologies, ICAECCT'23, scheduled to be held from 25 -26 October 2023 in University Mustapha Stambouli of Mascara, Mascara, Algeria.

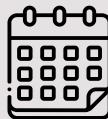
On behalf of the Organizing Committee, we would like to thank you for your submission and consideration and we look forward to your presentation at ICAECCT'23 conference.

Best regards,



Dr. Samir GHOUALI
ICAECCT'23 General Chair
On behalf of the ICAIRES2023 Organizing Committee

THE 1st INTERNATIONAL CONFERENCE ON ADVANCES IN ELECTRONICS, CONTROL AND COMPUTER TECHNOLOGIES



25-26 October 2023



The ICAECCT is the first international Conference on Advances in Electronics, Control and Computer Technology, organized by Department of Electrical Engineering, 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, biomedical and High Voltage Engineering.

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TOPICS

Topic 1: Control Systems, Robotics and Automation

Topic 2: Electronics and its applications

Topic 3: Telecommunications

Topic 4: Biomedical Engineering

Topic 5: High Voltage Engineering and Applications



<https://easychair.org/cfp/ICAECCT23>



<https://icaecct23.com>

THE SPEAKERS

Pr.Said Mammar

Director of the Science and Technology Department, Evry University, France



Pr. Mohamed Benaoumeur

Senouci

University of Southern Denmark



Pr. Emad Kamil Hussein

Professor of Mechanical Engineering at Al-Furat Al-Awsat Technical University, Iraq



Pr. Miloud Rezkallah

Department of Electrical Engineering; École de Technologie Supérieure (ETS) Montréal, Québec, Canada



Dr. Edeh Michael Onyema

Head of Department, Mathematics and Computer Science, Coal City University, Nigeria



Full-Text paper submission deadline: 01/08/2023

Notification of acceptance/rejection: 01/09/2023

Camera ready: 15/09/2023



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

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

October 25th - 26th, 2023
Mascara, Algeria

**PROGRAM
SCHEDULE
ICAECCT'23**





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Dr. Mourad HEBALI
University Mustapha Stambouli
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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

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Co-President
Dr. Amaria BEKHTI SIAD
Interim Dean of the Faculty of Sciences and Technology

CONFERENCE PRESIDENT

Dr. Samir GHOUALI
University Mustapha Stambouli of Mascara, Algeria

25 October 2023

0 8 : 3 0 - 1 7 : 0 0	CONFERENCE REGISTRATION AND CUSTOMER RELATIONS	
0 8 : 3 0 - 0 9 : 0 0	WELCOMING ATTENDEES	
0 9 : 0 0 - 0 9 : 2 0	NATIONAL ANTHEM	النشيد الوطني
RECITATION OF VERSES FROM THE HOLY QURAN		تلاوة آيات من القرآن الكريم
OPENING CEREMONY		
<p>Mr. Farid Mohamedi WALI de Mascara</p> <p>Prof. Abed BOUADI Rector of Mustapha Stambouli University, Mascara, Algeria</p>		
<p>Honorary Co-President</p> <p>Prof. Rabah KHENATA Vice Rector for External Relations, Cooperation, Animation, Communication and Scientific Events</p>		
<p>Honorary Co-President</p> <p>Dr. Amaria BEKHTI-SIAD Interim Dean of the Faculty of Sciences and Technology</p>		
<p>Conference Chair</p> <p>Dr. Samir GHOUALI Associate Professor, Faculty of Sciences and Technology, Mustapha Stambouli University Mascara Algeria</p>		
1 0 : 2 0 - 1 0 : 4 0	P L E N A R Y	Prof. Mohamed Benaoumeur Senouci University of Southern Denmark
1 0 : 4 0 - 1 1 : 0 0		(PRESENTIAL) BRINGING THE POWER OF AI TO THE INTERNET OF THINGS
1 1 : 0 0 - 1 1 : 2 0		Prof. Miloud Rezkallah Senior Researcher/Project Manager CR2IE Energy Intelligence Research and Innovation Center Associate Professor; School of Higher Technology (ETS), Canada
1 1 : 2 0 - 1 1 : 4 0		(PRESENTIAL) CHALLENGES AND IMPLEMENTATION OF DECENTRALIZED SMART ENERGY SYSTEMS FOR REMOTE SITES IN CANADA
1 1 : 4 0 - 1 2 : 0 0		Prof. Mustapha HATTI Research Director - UDES/EPST-CDER
1 2 : 0 0 - 1 4 : 0 0		(PRESENTIAL) SMART CITIES: CONCEPTS AND CONDITIONS OF SUCCESS



FACE TO FACE CONFERENCE ORAL SESSION (Physical)

ROOM A: Control Systems, Robotics and Automation									
Session Chairmen	Prof. Miloud REZKALLAH Senior Researcher/Project Manager at CR2IE Energy Intelligence Research and Innovation Center Associate Professor; School of Higher Technology (ETS), Canada Dr. Djamel Eddine CHAOUCH Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Ahmed LARBAOUI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria								
	ID								
14:00- 14:15	55 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"> <tr> <td>Participant</td><td>Abdelkrim BOUANANE</td><td>Dr. Moulay Taher University Saida</td></tr> <tr> <td>Co-authors</td><td colspan="2">NERZIOU MADANI, RAOUTI DRIS, YAHIAOUI MERZOUG</td></tr> </table>			Participant	Abdelkrim BOUANANE	Dr. Moulay Taher University Saida	Co-authors	NERZIOU MADANI, RAOUTI DRIS, YAHIAOUI MERZOUG	
Participant	Abdelkrim BOUANANE	Dr. Moulay Taher University Saida							
Co-authors	NERZIOU MADANI, RAOUTI DRIS, YAHIAOUI MERZOUG								
14:15- 14:30	71 Study the Influence of Emotions on Language Identification from Speech								
	<table border="1"> <tr> <td>Participant</td><td>Houari HORKOUS</td><td>Ecole National Polytechnique</td></tr> <tr> <td>Co-authors</td><td colspan="2"></td></tr> </table>			Participant	Houari HORKOUS	Ecole National Polytechnique	Co-authors		
Participant	Houari HORKOUS	Ecole National Polytechnique							
Co-authors									
14:30- 14:45	72 Passivity based control of a two-link flexible manipulator								
	<table border="1"> <tr> <td>Participant</td><td>Adel BELHERAZEM</td><td>University of sciences and technologies of Oran</td></tr> <tr> <td>Co-authors</td><td colspan="2">Zakaria BELLAHCENE, Abdelmalek LAIDANI</td></tr> </table>			Participant	Adel BELHERAZEM	University of sciences and technologies of Oran	Co-authors	Zakaria BELLAHCENE, Abdelmalek LAIDANI	
Participant	Adel BELHERAZEM	University of sciences and technologies of Oran							
Co-authors	Zakaria BELLAHCENE, Abdelmalek LAIDANI								
14:45- 15:00	73 Robust Adaptive Control of Remotely Operated Underwater Vehicle (ROV) for Dam Inspection								
	<table border="1"> <tr> <td>Participant</td><td>Zakaria BELLAHCENE</td><td>University of sciences and technology of Oran</td></tr> <tr> <td>Co-authors</td><td colspan="2">ADEL BELHERAZEM, Abdelmalek LAIDANI, Mohammed BOUHAMIDA</td></tr> </table>			Participant	Zakaria BELLAHCENE	University of sciences and technology of Oran	Co-authors	ADEL BELHERAZEM, Abdelmalek LAIDANI, Mohammed BOUHAMIDA	
Participant	Zakaria BELLAHCENE	University of sciences and technology of Oran							
Co-authors	ADEL BELHERAZEM, Abdelmalek LAIDANI, Mohammed BOUHAMIDA								
15:00- 15:15	75 Photovoltaic Generator Analysis based on Maximum Power Point Tracking with DC/DC Converter for Motor Pump Applications								
	<table border="1"> <tr> <td>Participant</td><td>Fatima MOULAY</td><td>University of Technology Djilali Liabes of Sidi bel abbes</td></tr> <tr> <td>Co-authors</td><td colspan="2">HABBATI ASSIA, OUKLI MIMOUNA</td></tr> </table>			Participant	Fatima MOULAY	University of Technology Djilali Liabes of Sidi bel abbes	Co-authors	HABBATI ASSIA, OUKLI MIMOUNA	
Participant	Fatima MOULAY	University of Technology Djilali Liabes of Sidi bel abbes							
Co-authors	HABBATI ASSIA, OUKLI MIMOUNA								
15:15- 16:15	Poster session 1 & coffee break								
16:15- 16:30	302 Telemetries forecasting: A preventive approach for satellite operations, diagnostic and monitoring								
	<table border="1"> <tr> <td>Participant</td><td>Ali KADDOURI</td><td>Algerian Space Agency</td></tr> <tr> <td>Co-authors</td><td colspan="2">Saiah Bekkar, Djelloul Saiah</td></tr> </table>			Participant	Ali KADDOURI	Algerian Space Agency	Co-authors	Saiah Bekkar, Djelloul Saiah	
Participant	Ali KADDOURI	Algerian Space Agency							
Co-authors	Saiah Bekkar, Djelloul Saiah								
16:30- 16:45	78 Energy Management System Enhancement for Electric Vehicle Application								
	<table border="1"> <tr> <td>Participant</td><td>Ibrahim Farouk BOUGUENNA</td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">Abdelghani ZABEL, Ahmed TAHOUR, Mohammed Benmadani DEBBAT, Mohamed AMRI</td></tr> </table>			Participant	Ibrahim Farouk BOUGUENNA	University Mustapha Stambouli of Mascara	Co-authors	Abdelghani ZABEL, Ahmed TAHOUR, Mohammed Benmadani DEBBAT, Mohamed AMRI	
Participant	Ibrahim Farouk BOUGUENNA	University Mustapha Stambouli of Mascara							
Co-authors	Abdelghani ZABEL, Ahmed TAHOUR, Mohammed Benmadani DEBBAT, Mohamed AMRI								



ROOM B: Electronics and its Applications

Session Chairmen	Prof. Mustapha HATTI Research Director - UDES/EPST-CDER Dr. Mourad HEBALI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Hocine Abdelhak AZZEDDINE Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Abdelkader MAACHOU Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria										
	ID										
	14:00- 14:15	50	Optimization of Technological Parameters Process of Mechanically Stacked Si/Ge Solar Cell for High Performance <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Participant</td><td style="width: 40%;">Kheira AMEUR</td><td style="width: 30%; text-align: right;">University Djillali Liabes of Sidi Bel Abbes</td></tr> <tr> <td>Co-authors</td><td colspan="2">Nadia BENSEDDIK, Halima MAZARI, Kheira OUARI, Zineb BENAMARA</td></tr> </table>			Participant	Kheira AMEUR	University Djillali Liabes of Sidi Bel Abbes	Co-authors	Nadia BENSEDDIK, Halima MAZARI, Kheira OUARI, Zineb BENAMARA	
Participant	Kheira AMEUR	University Djillali Liabes of Sidi Bel Abbes									
Co-authors	Nadia BENSEDDIK, Halima MAZARI, Kheira OUARI, Zineb BENAMARA										
	14:15- 14:30	156	Effective MPPT Technique for Wind Energy Conversion System <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Participant</td><td style="width: 40%;">Mohamed KAOUANE</td><td style="width: 30%; text-align: right;">Faculty of technology - UMBB</td></tr> <tr> <td>Co-authors</td><td colspan="2">Akkila BOUKHELIFA</td></tr> </table>			Participant	Mohamed KAOUANE	Faculty of technology - UMBB	Co-authors	Akkila BOUKHELIFA	
Participant	Mohamed KAOUANE	Faculty of technology - UMBB									
Co-authors	Akkila BOUKHELIFA										
	14:30- 14:45	166	Small Size, Big Impact: CubeSat Imaging with COTS Hardware <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Participant</td><td style="width: 40%;">Mohammed amine ZAFRANE</td><td style="width: 30%; text-align: right;">University of Science and Technologies of Oran</td></tr> <tr> <td>Co-authors</td><td colspan="2">AHMED RAMZI HOUALEF, AHMED TAHIR</td></tr> </table>			Participant	Mohammed amine ZAFRANE	University of Science and Technologies of Oran	Co-authors	AHMED RAMZI HOUALEF, AHMED TAHIR	
Participant	Mohammed amine ZAFRANE	University of Science and Technologies of Oran									
Co-authors	AHMED RAMZI HOUALEF, AHMED TAHIR										
	14:45- 15:00	51	Forest Firefighting Using Drone and Artificial Intelligence <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Participant</td><td style="width: 40%;">Ibrahim Farouk BOUGUENNA</td><td style="width: 30%; text-align: right;">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">Zolikha DAHNOUN</td></tr> </table>			Participant	Ibrahim Farouk BOUGUENNA	University Mustapha Stambouli of Mascara	Co-authors	Zolikha DAHNOUN	
Participant	Ibrahim Farouk BOUGUENNA	University Mustapha Stambouli of Mascara									
Co-authors	Zolikha DAHNOUN										
	15:00- 15:15	161	Closed Loop Cuk Converter Modeling for Photovoltaic Conversion System <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Participant</td><td style="width: 40%;">Mohamed Kaouane</td><td style="width: 30%; text-align: right;">Faculty of technology - UMBB</td></tr> <tr> <td>Co-authors</td><td colspan="2">Akkila BOUKHELIFA</td></tr> </table>			Participant	Mohamed Kaouane	Faculty of technology - UMBB	Co-authors	Akkila BOUKHELIFA	
Participant	Mohamed Kaouane	Faculty of technology - UMBB									
Co-authors	Akkila BOUKHELIFA										
	15:15- 16:15	Poster session 1 & coffee break									
	16:15- 16:30	123	Spontaneous Electric Polarization and Photovoltaic Properties of Stephanite for Thin-Film Solar Celle: A First-Principles Investigation <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Participant</td><td style="width: 40%;">Naouel CHELIL</td><td style="width: 30%; text-align: right;">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">Mohammed SAHNOUN</td></tr> </table>			Participant	Naouel CHELIL	University Mustapha Stambouli of Mascara	Co-authors	Mohammed SAHNOUN	
Participant	Naouel CHELIL	University Mustapha Stambouli of Mascara									
Co-authors	Mohammed SAHNOUN										
	16:30- 16:45	177	Study and development of a pseudo-random number generator on FPGA <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Participant</td><td style="width: 40%;">Omar Medjadj</td><td style="width: 30%; text-align: right;">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">Benaoumeur IBARI, Mourad HEBALI, Rezali BAGHDADI, Mohammed El-Amine BEYOUR, Hocine Abdelhak AZZEDDINE</td></tr> </table>			Participant	Omar Medjadj	University Mustapha Stambouli of Mascara	Co-authors	Benaoumeur IBARI, Mourad HEBALI, Rezali BAGHDADI, Mohammed El-Amine BEYOUR, Hocine Abdelhak AZZEDDINE	
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	196	Study the Electrical Characteristics of a Schottky Diode Based Au/n-type InN/InP at Different Frequencies <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Participant</td><td style="width: 40%;">Abdelkader BAGHDAD BEY</td><td style="width: 30%; text-align: right;">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">A. TALBI, M. A. BENAMARA, Z. BENAMARA, F. DUCROQUET</td></tr> </table>			Participant	Abdelkader BAGHDAD BEY	University Mustapha Stambouli of Mascara	Co-authors	A. TALBI, M. A. BENAMARA, Z. BENAMARA, F. DUCROQUET	
Participant	Abdelkader BAGHDAD BEY	University Mustapha Stambouli of Mascara									
Co-authors	A. TALBI, M. A. BENAMARA, Z. BENAMARA, F. DUCROQUET										



Samir GHOUALI
ICAECCT '23
Général Chair

ROOM C: Telecommunications and its Applications

Session Chairmen	Prof. Mohamed Benaoumeur Senouci University of Southern Denmark Dr. Mohamed Larbi TAYEBI TAYEBI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Mokhtar BESSEGHIER Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Mouwaffeq BOUREGAA Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Fouad KHERBOUCHE 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%; border-collapse: collapse;"> <tr> <td style="width: 15%;">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%; border-collapse: collapse;"> <tr> <td style="width: 15%;">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%; border-collapse: collapse;"> <tr> <td style="width: 15%;">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
Participant	Mehdi DAMOU Laboratory of Electronics, Advanced Signal Processing and Microwave						
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%; border-collapse: collapse;"> <tr> <td style="width: 15%;">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
Participant	Zineb ZIANI USTO-MB University, Oran						
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%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Participant</td><td>Abdellatif BERKAT Abou Bakr Belkaïd University-Tlemcen</td></tr> <tr> <td>Co-authors</td><td>Zeyneb BERKAT, Mohamed LATRACH</td></tr> </table>		Participant	Abdellatif BERKAT Abou Bakr Belkaïd University-Tlemcen	Co-authors	Zeyneb BERKAT, Mohamed LATRACH
Participant	Abdellatif BERKAT Abou Bakr Belkaïd University-Tlemcen						
Co-authors	Zeyneb BERKAT, Mohamed LATRACH						



Dr. Samir GHOUALI
ICAECCT '23
Général Chair

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	
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	Dr. Khadidja GOUIZI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Nabila HAMIL Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Abdelkader HORCH Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. MOHAMMED SEGHIR GUELLIL Faculty SEGC, 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	
14:15- 14:30	33	LSTM for epileptic disease recognition		
		Participant	Ghezala CHEKHMANE University of Abou Bekr Belkaïd Tlemcen	
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 Belkaïd Tlemcen	
		Co-authors	HADJ SLIMANE ZINE EDDINE	

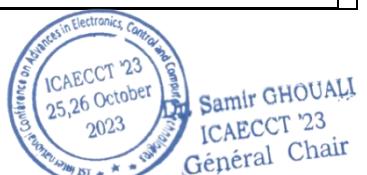
14:45- 15:00	24	Blood Product Prediction using Supervised Machine Learning		
		<table border="1"> <tr> <td>Participant</td><td>Amel YKHLEF National Polytechnic School of Oran</td></tr> <tr> <td>Co-authors</td><td>LABRI NADJLA SELMA, BRAHAMI MENAOUER</td></tr> </table>	Participant	Amel YKHLEF National Polytechnic School of Oran
Participant	Amel YKHLEF National Polytechnic School of Oran			
Co-authors	LABRI NADJLA SELMA, BRAHAMI MENAOUER			
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		
		<table border="1"> <tr> <td>Participant</td><td>Abdallah OUMSALEM Hassiba Ben Bouali University of Chlef, Algeria</td></tr> <tr> <td>Co-authors</td><td>Yamina BOUREZIG</td></tr> </table>	Participant	Abdallah OUMSALEM Hassiba Ben Bouali University of Chlef, Algeria
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		
		<table border="1"> <tr> <td>Participant</td><td>Fatiha MESKINE Djillali Liabes University of Sidi-Bel-Abbes</td></tr> <tr> <td>Co-authors</td><td>Oussama MEZOUAR</td></tr> </table>	Participant	Fatiha MESKINE Djillali Liabes University of Sidi-Bel-Abbes
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		
		<table border="1"> <tr> <td>Participant</td><td>Mohamed AMMARA University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td>Mokhtar BESSEGHIER</td></tr> </table>	Participant	Mohamed AMMARA University Mustapha Stambouli of Mascara
Participant	Mohamed AMMARA University Mustapha Stambouli of Mascara			
Co-authors	Mokhtar BESSEGHIER			
16:45- 17:00	142	Study and simulation of biosensors based AlGaN/GaN MOS-HEMTs for specific detection of biomolecules		
		<table border="1"> <tr> <td>Participant</td><td>Abdellah BOUGUENNA University of Sciences & Technology of Oran (USTO-MB)</td></tr> <tr> <td>Co-authors</td><td>DRISS BOUGUENNA, AMINE BOUDGHENE STAMBOULI</td></tr> </table>	Participant	Abdellah BOUGUENNA University of Sciences & Technology of Oran (USTO-MB)
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		
		<table border="1"> <tr> <td>Participant</td><td>Boumediene Ghaouti GHAZI University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td>BOUDJELAL MEFTAH</td></tr> </table>	Participant	Boumediene Ghaouti GHAZI University Mustapha Stambouli of Mascara
Participant	Boumediene Ghaouti GHAZI University Mustapha Stambouli of Mascara			
Co-authors	BOUDJELAL MEFTAH			



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CONFERENCE POSTER SESSION 1

Session Chairman		Dr. Mokhtar BESSEGHIER Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Menouer BENNAOUM Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Radia MADJIDI 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, ANTAR KAWTHER, BENOUAR ALI, AHMED BACHA MOHAMED REDA
117	Optimal choice of weightings functions for synthesis a robust H_{∞} 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. KAHHOU 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	<p>Application Of Direct and Indirect Adaptive Controller Neural Network Based on Rbf Nn for Temperature Control of Electric Resistance</p> <table border="1" data-bbox="219 309 1495 399"> <tr> <td>Participant</td><td>Benyekhlef KADA</td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">DJAMEL EDDINE CHAOUCH, ABDELKADER ELKEBIR</td></tr> </table>			Participant	Benyekhlef KADA	University Mustapha Stambouli of Mascara	Co-authors	DJAMEL EDDINE CHAOUCH, ABDELKADER ELKEBIR	
Participant	Benyekhlef KADA	University Mustapha Stambouli of Mascara							
Co-authors	DJAMEL EDDINE CHAOUCH, ABDELKADER ELKEBIR								
250	<p>Applied the different Direct Torque control on the IM</p> <table border="1" data-bbox="219 489 1495 579"> <tr> <td>Participant</td><td>Moulay Idriss CHERGUI</td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">ABDELHAQ LAOUI, SOUFYANE CHEKROUN</td></tr> </table>			Participant	Moulay Idriss CHERGUI	University Mustapha Stambouli of Mascara	Co-authors	ABDELHAQ LAOUI, SOUFYANE CHEKROUN	
Participant	Moulay Idriss CHERGUI	University Mustapha Stambouli of Mascara							
Co-authors	ABDELHAQ LAOUI, SOUFYANE CHEKROUN								
301	<p>Real-time implementation of single-phase inverter for photovoltaic system based on DC/DC and DC/AC stages</p> <table border="1" data-bbox="219 702 1495 792"> <tr> <td>Participant</td><td>Abdelkader EL KEBIR</td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">HAFIDA BELHADJ</td></tr> </table>			Participant	Abdelkader EL KEBIR	University Mustapha Stambouli of Mascara	Co-authors	HAFIDA BELHADJ	
Participant	Abdelkader EL KEBIR	University Mustapha Stambouli of Mascara							
Co-authors	HAFIDA BELHADJ								
400	<p>Design of a Fly back converter using TL494 control circuit for a photovoltaic system</p> <table border="1" data-bbox="219 871 1495 950"> <tr> <td>Participant</td><td>HAFIDA BELHADJ</td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">Abdelkader EL KEBIR</td></tr> </table>			Participant	HAFIDA BELHADJ	University Mustapha Stambouli of Mascara	Co-authors	Abdelkader EL KEBIR	
Participant	HAFIDA BELHADJ	University Mustapha Stambouli of Mascara							
Co-authors	Abdelkader EL KEBIR								
251	<p>Morphology influence of the donor and acceptor molecules of the active layer on the response parameters of organic photovoltaic cells OPVCs</p> <table border="1" data-bbox="219 1073 1495 1163"> <tr> <td>Participant</td><td>Mohamed Benamar SIAD</td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">Y. MOUCHAAL, A. KHELIL, J.C. BERNEDE</td></tr> </table>			Participant	Mohamed Benamar SIAD	University Mustapha Stambouli of Mascara	Co-authors	Y. MOUCHAAL, A. KHELIL, J.C. BERNEDE	
Participant	Mohamed Benamar SIAD	University Mustapha Stambouli of Mascara							
Co-authors	Y. MOUCHAAL, A. KHELIL, J.C. BERNEDE								
96	<p>Image Transmission Through OFDM System</p> <table border="1" data-bbox="219 1264 1495 1343"> <tr> <td>Participant</td><td>Fatiha MESKINE</td><td>Djillali Liabes University, Sidi Bel Abbes</td></tr> <tr> <td>Co-authors</td><td colspan="2">Amina DJIR, Brahim DEHRI</td></tr> </table>			Participant	Fatiha MESKINE	Djillali Liabes University, Sidi Bel Abbes	Co-authors	Amina DJIR, Brahim DEHRI	
Participant	Fatiha MESKINE	Djillali Liabes University, Sidi Bel Abbes							
Co-authors	Amina DJIR, Brahim DEHRI								
190	<p>Deforestation detection using NRCS features extracted from multi dates SAR images</p> <table border="1" data-bbox="219 1444 1495 1545"> <tr> <td>Participant</td><td>Abdelkader Horch</td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">IMANE MAHFOUF, MOKHTAR BESSEGHIER, HOCINE ABDELHAK AZZEDDINE, ABDERAHMANE LOUNI</td></tr> </table>			Participant	Abdelkader Horch	University Mustapha Stambouli of Mascara	Co-authors	IMANE MAHFOUF, MOKHTAR BESSEGHIER, HOCINE ABDELHAK AZZEDDINE, ABDERAHMANE LOUNI	
Participant	Abdelkader Horch	University Mustapha Stambouli of Mascara							
Co-authors	IMANE MAHFOUF, MOKHTAR BESSEGHIER, HOCINE ABDELHAK AZZEDDINE, ABDERAHMANE LOUNI								
310	<p>Detection of Sleep Apnea Using Machine Learning Algorithms Based on The ECG Signal</p> <table border="1" data-bbox="219 1646 1495 1736"> <tr> <td>Participant</td><td>Leila RIZOUG</td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">ISMAHENE BAADJA, NORA BELHAJ, ABDELKADER HORCH, ABDERAHMANE LOUNI</td></tr> </table>			Participant	Leila RIZOUG	University Mustapha Stambouli of Mascara	Co-authors	ISMAHENE BAADJA, NORA BELHAJ, ABDELKADER HORCH, ABDERAHMANE LOUNI	
Participant	Leila RIZOUG	University Mustapha Stambouli of Mascara							
Co-authors	ISMAHENE BAADJA, NORA BELHAJ, ABDELKADER HORCH, ABDERAHMANE LOUNI								
176	<p>Application of Artificial Neural Network (ANN) to Predict the Electrical Properties of 4H-SiC Schottky Diodes</p> <table border="1" data-bbox="219 1837 1495 2025"> <tr> <td>Participant</td><td>Mohammed El-Amine BEYOUR</td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">MOURAD HEBALI, BENOUMEUR IBARI, OMAR MEDJADJ, REZALI BAGHDADI, ABDELKADER MAACHOU, HOCINE ABDELHAK AZZEDDINE, MENAOUER BENNAOUM</td></tr> </table>			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	
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								



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186	<p>Advances in Power Sources and Power Electronic Converters for Multi-Source Electric Vehicles</p> <table border="1" data-bbox="219 280 1489 370"> <tr> <td>Participant</td><td colspan="2">Khaled BOUHADEF</td></tr> <tr> <td></td><td colspan="2">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">DJAMEL EDDINE CHAOUCH, HOCINE ABDELHAK AZZEDINE</td></tr> </table>			Participant	Khaled BOUHADEF			University Mustapha Stambouli of Mascara		Co-authors	DJAMEL EDDINE CHAOUCH, HOCINE ABDELHAK AZZEDINE	
Participant	Khaled BOUHADEF											
	University Mustapha Stambouli of Mascara											
Co-authors	DJAMEL EDDINE CHAOUCH, HOCINE ABDELHAK AZZEDINE											
139	<p>Dual-Band Planar Antenna Design with Complementary Metamaterial Resonators for 5G systems</p> <table border="1" data-bbox="219 449 1489 539"> <tr> <td>Participant</td><td colspan="2">Nour El Houda BOUKHLIF</td></tr> <tr> <td></td><td colspan="2">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">SAMIR GHOUALI, ABDELFETTAH MIRAOUI</td></tr> </table>			Participant	Nour El Houda BOUKHLIF			University Mustapha Stambouli of Mascara		Co-authors	SAMIR GHOUALI, ABDELFETTAH MIRAOUI	
Participant	Nour El Houda BOUKHLIF											
	University Mustapha Stambouli of Mascara											
Co-authors	SAMIR GHOUALI, ABDELFETTAH MIRAOUI											
187	<p>Exploring the Security Landscape Internet of Things</p> <table border="1" data-bbox="219 617 1489 707"> <tr> <td>Participant</td><td colspan="2">Hadjer BOUKHLIF</td></tr> <tr> <td></td><td colspan="2">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">MOUWEFFEQ BOUREGAA, MOHAMMED MOULAY</td></tr> </table>			Participant	Hadjer BOUKHLIF			University Mustapha Stambouli of Mascara		Co-authors	MOUWEFFEQ BOUREGAA, MOHAMMED MOULAY	
Participant	Hadjer BOUKHLIF											
	University Mustapha Stambouli of Mascara											
Co-authors	MOUWEFFEQ BOUREGAA, MOHAMMED MOULAY											
194	<p>Wireless Technology in Medical Applications: State of the Art, Challenges, and Opportunities</p> <table border="1" data-bbox="219 797 1489 887"> <tr> <td>Participant</td><td colspan="2">Abderrahmane BENHALIMA</td></tr> <tr> <td></td><td colspan="2">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">BENZERGA FELLAH, SAMIR GHOUALI</td></tr> </table>			Participant	Abderrahmane BENHALIMA			University Mustapha Stambouli of Mascara		Co-authors	BENZERGA FELLAH, SAMIR GHOUALI	
Participant	Abderrahmane BENHALIMA											
	University Mustapha Stambouli of Mascara											
Co-authors	BENZERGA FELLAH, SAMIR GHOUALI											
185	<p>Revolutionizing Diabetic Retinopathy Detection: A Comprehensive Review of AI Approaches</p> <table border="1" data-bbox="219 977 1489 1066"> <tr> <td>Participant</td><td colspan="2">Imane MAHFOUT</td></tr> <tr> <td></td><td colspan="2">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">ABDELKADER HORCH, BOUALEM MERABET</td></tr> </table>			Participant	Imane MAHFOUT			University Mustapha Stambouli of Mascara		Co-authors	ABDELKADER HORCH, BOUALEM MERABET	
Participant	Imane MAHFOUT											
	University Mustapha Stambouli of Mascara											
Co-authors	ABDELKADER HORCH, BOUALEM MERABET											
197	<p>Optimizing Chromatic Dispersion in Fiber with Air-Silica Microstructured (FMAS) for Advanced Optical Telecommunications</p> <table border="1" data-bbox="219 1201 1489 1291"> <tr> <td>Participant</td><td colspan="2">Mohammed DEBBAL</td></tr> <tr> <td></td><td colspan="2">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">MOUWEFFEQ BOUREGAA, MOHAMMED CHAMSE EDDINE OUADAH, HICHAM CHIKH-BLED</td></tr> </table>			Participant	Mohammed DEBBAL			University Mustapha Stambouli of Mascara		Co-authors	MOUWEFFEQ BOUREGAA, MOHAMMED CHAMSE EDDINE OUADAH, HICHAM CHIKH-BLED	
Participant	Mohammed DEBBAL											
	University Mustapha Stambouli of Mascara											
Co-authors	MOUWEFFEQ BOUREGAA, MOHAMMED CHAMSE EDDINE OUADAH, HICHAM CHIKH-BLED											
405	<p>The role of formants and subglottal resonance frequencies for emphatic feature identification in Arabic speech</p> <table border="1" data-bbox="219 1426 1489 1516"> <tr> <td>Participant</td><td colspan="2">Abderrahmane LOUNI</td></tr> <tr> <td></td><td colspan="2">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">LEILA RIZOUG, ABDELHAK ZOUGGARET, BOUALEM MERABET, ABDERRAHIM BELMADANI</td></tr> </table>			Participant	Abderrahmane LOUNI			University Mustapha Stambouli of Mascara		Co-authors	LEILA RIZOUG, ABDELHAK ZOUGGARET, BOUALEM MERABET, ABDERRAHIM BELMADANI	
Participant	Abderrahmane LOUNI											
	University Mustapha Stambouli of Mascara											
Co-authors	LEILA RIZOUG, ABDELHAK ZOUGGARET, BOUALEM MERABET, ABDERRAHIM BELMADANI											
303	<p>Photo-electrochemical and Physical Properties of the Spinel CuMn₂O₄ Prepared by Chemical Route: Application to Photodegradation of carminic acid dye</p> <table border="1" data-bbox="219 1605 1489 1695"> <tr> <td>Participant</td><td colspan="2">Hafidha BOUCHAABA</td></tr> <tr> <td></td><td colspan="2">University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td colspan="2">SARRA GOUDJILI, ZOHRA FERGOUG</td></tr> </table>			Participant	Hafidha BOUCHAABA			University Mustapha Stambouli of Mascara		Co-authors	SARRA GOUDJILI, ZOHRA FERGOUG	
Participant	Hafidha BOUCHAABA											
	University Mustapha Stambouli of Mascara											
Co-authors	SARRA GOUDJILI, ZOHRA FERGOUG											
17	<p>Control of six-phase two-motor drive machine serie-connected fed by five-level six-phase inverter</p> <table border="1" data-bbox="219 1763 1489 1852"> <tr> <td>Participant</td><td colspan="2">Taieb BESSAAD</td></tr> <tr> <td></td><td colspan="2">Hassiba Benbouali University Chlef</td></tr> <tr> <td>Co-authors</td><td colspan="2">ABDERRAHMEN BENBOUALI</td></tr> </table>			Participant	Taieb BESSAAD			Hassiba Benbouali University Chlef		Co-authors	ABDERRAHMEN BENBOUALI	
Participant	Taieb BESSAAD											
	Hassiba Benbouali University Chlef											
Co-authors	ABDERRAHMEN BENBOUALI											



Samir GHOUALI
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VIRTUAL CONFERENCE SESSION

ROOM E: Control Systems, Robotics and Automation (VIRTUAL)

Session Chairmen	Dr. Soufyane CHEKROUN Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Omar DAHOU Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Benyekhlef KADA Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Boumediene BENABDALLAH SEREIR 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;"> <tr> <td style="width: 30%;">Participant</td><td colspan="2">Karim BOUAOUCHE Badji Mokhtar-Annaba University</td></tr> <tr> <td>Co-authors</td><td colspan="2">YAMINA MENASRIA, DALILA KHALFA</td></tr> </table>			Participant	Karim BOUAOUCHE Badji Mokhtar-Annaba University		Co-authors	YAMINA MENASRIA, DALILA KHALFA	
Participant	Karim BOUAOUCHE Badji Mokhtar-Annaba University									
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;"> <tr> <td style="width: 30%;">Participant</td><td colspan="2">Belkacem SELMA Hassiba Benbouali University of Chlef</td></tr> <tr> <td>Co-authors</td><td colspan="2">ELHADJ BOUNADJA, BACHIR BELMADANI, BOUMEDIENE SELMA</td></tr> </table>			Participant	Belkacem SELMA Hassiba Benbouali University of Chlef		Co-authors	ELHADJ BOUNADJA, BACHIR BELMADANI, BOUMEDIENE SELMA	
Participant	Belkacem SELMA Hassiba Benbouali University of Chlef									
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;"> <tr> <td style="width: 30%;">Participant</td><td colspan="2">Walid Mohammed KACEMI Hassiba Benbouali University of Chlef</td></tr> <tr> <td>Co-authors</td><td colspan="2">ELHADJ BOUNADJA, ABDELKADIR BELHADJ DJILALI</td></tr> </table>			Participant	Walid Mohammed KACEMI Hassiba Benbouali University of Chlef		Co-authors	ELHADJ BOUNADJA, ABDELKADIR BELHADJ DJILALI	
Participant	Walid Mohammed KACEMI Hassiba Benbouali University of Chlef									
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;"> <tr> <td style="width: 30%;">Participant</td><td colspan="2">Belkacem SELMA Hassiba Benbouali University of Chlef</td></tr> <tr> <td>Co-authors</td><td colspan="2">ELHADJ BOUNADJA, BACHIR BELMADANI, BOUMEDIENE SELMA</td></tr> </table>			Participant	Belkacem SELMA Hassiba Benbouali University of Chlef		Co-authors	ELHADJ BOUNADJA, BACHIR BELMADANI, BOUMEDIENE SELMA	
Participant	Belkacem SELMA Hassiba Benbouali University of Chlef									
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;"> <tr> <td style="width: 30%;">Participant</td><td colspan="2">Aissa MEKSI University of Sciences and Technology of Oran</td></tr> <tr> <td>Co-authors</td><td colspan="2">Laid ABDELALI</td></tr> </table>			Participant	Aissa MEKSI University of Sciences and Technology of Oran		Co-authors	Laid ABDELALI	
Participant	Aissa MEKSI University of Sciences and Technology of Oran									
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;"> <tr> <td style="width: 30%;">Participant</td><td colspan="2">El-Ghalia BOUDISSA Saad Dahlab University of Blida1</td></tr> <tr> <td>Co-authors</td><td colspan="2">F. HABBI, N. DIF, N.E.H. GABOUR, M. BOUNEKHLA</td></tr> </table>			Participant	El-Ghalia BOUDISSA Saad Dahlab University of Blida1		Co-authors	F. HABBI, N. DIF, N.E.H. GABOUR, M. BOUNEKHLA	
Participant	El-Ghalia BOUDISSA Saad Dahlab University of Blida1									
Co-authors	F. HABBI, N. DIF, N.E.H. GABOUR, M. BOUNEKHLA									



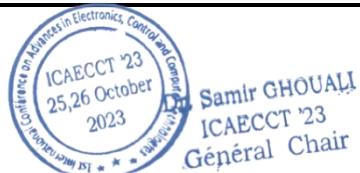
16:30- 16:45	68	Particle Swarm Optimization Algorithm-Based PID Controller for Output Voltage Regulation of Synchronous Generator				
		<table border="1"> <tr> <td>Participant</td><td>El-Ghelia BOUDISSA</td></tr> <tr> <td>Co-authors</td><td>FATIHA HABBI, NOUR EL HOUDA GABOUR, MOHAMED BOUNEKHLA AND DIF NAAS</td></tr> </table>	Participant	El-Ghelia BOUDISSA	Co-authors	FATIHA HABBI, NOUR EL HOUDA GABOUR, MOHAMED BOUNEKHLA AND DIF NAAS
Participant	El-Ghelia BOUDISSA					
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				
		<table border="1"> <tr> <td>Participant</td><td>Fatima Zohra DAIKH</td></tr> <tr> <td>Co-authors</td><td>MOHAMMED SEGHIR GUELLIL, MOHAMMED AMINE HAMADOUCHE</td></tr> </table>	Participant	Fatima Zohra DAIKH	Co-authors	MOHAMMED SEGHIR GUELLIL, MOHAMMED AMINE HAMADOUCHE
Participant	Fatima Zohra DAIKH					
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				
		<table border="1"> <tr> <td>Participant</td><td>Omar ZOUAID</td></tr> <tr> <td>Co-authors</td><td>LAZHARI NEZLI</td></tr> </table>	Participant	Omar ZOUAID	Co-authors	LAZHARI NEZLI
Participant	Omar ZOUAID					
Co-authors	LAZHARI NEZLI					
17:15- 17:30	25	Simplified Control of PMSM Motors with Matrix Converter using SVM Strategy				
		<table border="1"> <tr> <td>Participant</td><td>Fayssal SAIDI</td></tr> <tr> <td>Co-authors</td><td>ELHADJ BOUNADJA, ABDELKADER DJAHBAR</td></tr> </table>	Participant	Fayssal SAIDI	Co-authors	ELHADJ BOUNADJA, ABDELKADER DJAHBAR
Participant	Fayssal SAIDI					
Co-authors	ELHADJ BOUNADJA, ABDELKADER DJAHBAR					
17:30- 17:45	85	Speed Sliding Control of Squirrel Cage Motor combined NPC Five Level Inverter				
		<table border="1"> <tr> <td>Participant</td><td>Kheira MENDAZ</td></tr> <tr> <td>Co-authors</td><td>BENHADDA YAMINA, YOUNES KHADIDJA</td></tr> </table>	Participant	Kheira MENDAZ	Co-authors	BENHADDA YAMINA, YOUNES KHADIDJA
Participant	Kheira MENDAZ					
Co-authors	BENHADDA YAMINA, YOUNES KHADIDJA					



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ROOM F: Telecommunications and its Applications (VIRTUAL)

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



16:45- 17:00	124	Implementation of MF - TDMA OTDM-WDM mapping for the DVB-RCS2 system: Functional approach				
		<table border="1"> <tr> <td>Participant</td><td>Meryem Romaissa DJELLOULI university Djillali Liabes Sidi Bel Abbes</td></tr> <tr> <td>Co-authors</td><td>SID AHMED CHOUAKRI, ABDELKRIM GHAZ</td></tr> </table>	Participant	Meryem Romaissa DJELLOULI university Djillali Liabes Sidi Bel Abbes	Co-authors	SID AHMED CHOUAKRI, ABDELKRIM GHAZ
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				
		<table border="1"> <tr> <td>Participant</td><td>Lallouani OUCHAKOUR USTHB</td></tr> <tr> <td>Co-authors</td><td>MOHAMED DEBYECHE</td></tr> </table>	Participant	Lallouani OUCHAKOUR USTHB	Co-authors	MOHAMED DEBYECHE
Participant	Lallouani OUCHAKOUR USTHB					
Co-authors	MOHAMED DEBYECHE					
17:15- 17:30	77	An overview on DNA-based cryptography				
		<table border="1"> <tr> <td>Participant</td><td>Djihad DJAA Djillali Liabes University, Sidi Bel Abbes</td></tr> <tr> <td>Co-authors</td><td>KHEIREDDINE MEKKAOUI, SOFIANE BOUKLI-HACENE</td></tr> </table>	Participant	Djihad DJAA Djillali Liabes University, Sidi Bel Abbes	Co-authors	KHEIREDDINE MEKKAOUI, SOFIANE BOUKLI-HACENE
Participant	Djihad DJAA Djillali Liabes University, Sidi Bel Abbes					
Co-authors	KHEIREDDINE MEKKAOUI, SOFIANE BOUKLI-HACENE					
17:30- 17:45	47	Modeling of Radar Sea Clutter Using the Mixture of Three Weibull Distributions				
		<table border="1"> <tr> <td>Participant</td><td>Sarah LEFAIDA University Des Frères Mentouri Constantine</td></tr> <tr> <td>Co-authors</td><td>Faouzi SOLTANI, Amar MEZACHE</td></tr> </table>	Participant	Sarah LEFAIDA University Des Frères Mentouri Constantine	Co-authors	Faouzi SOLTANI, Amar MEZACHE
Participant	Sarah LEFAIDA University Des Frères Mentouri Constantine					
Co-authors	Faouzi SOLTANI, Amar MEZACHE					

ROOM G: Telecommunications and its Applications (VIRTUAL)						
Session Chairmen		Prof. Larbi SEKHRI Industrial Computing and Networks Research Laboratory (LIIR), University of Oran Prof. Amina BENDAOUDI Djillali Liabes University of Sidi Bel-Abbes, Algeria Dr. Abdelfettah MIRAOUI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Mokhtar BOUHALOUANE 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 <table border="1"> <tr> <td>Participant</td><td>Rahma Djaouda TALEB ABOU BEKR BELKAID University, Tlemcen</td></tr> <tr> <td>Co-authors</td><td>MOHAMMED ZAKARYA BABA-AHMED, MOHAMMED AMIN RABAH, SIDAHMED BENABBOU, MERIEM IKRAM SOUFI</td></tr> </table>	Participant	Rahma Djaouda TALEB ABOU BEKR BELKAID University, Tlemcen	Co-authors	MOHAMMED ZAKARYA BABA-AHMED, MOHAMMED AMIN RABAH, SIDAHMED BENABBOU, MERIEM IKRAM SOUFI
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 Millimiter-Wave Applications <table border="1"> <tr> <td>Participant</td><td>Hanane METAHRI ABOU BEKR BELKAID University, Tlemcen</td></tr> <tr> <td>Co-authors</td><td>MEHADJI ABRI, MOHAMMED MOULAY, HANAA MOUSSAOUI, NABIL CHERIF</td></tr> </table>	Participant	Hanane METAHRI ABOU BEKR BELKAID University, Tlemcen	Co-authors	MEHADJI ABRI, MOHAMMED MOULAY, HANAA MOUSSAOUI, NABIL CHERIF
Participant	Hanane METAHRI ABOU BEKR BELKAID University, Tlemcen					
Co-authors	MEHADJI ABRI, MOHAMMED MOULAY, HANAA MOUSSAOUI, NABIL CHERIF					



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14:30- 14:45	43	Inovation of a Miniaturized Antenna Array Based On A High Frequency Substrate And Metamaterial Cells				
		<table border="1"> <tr> <td>Participant</td><td>Fayza BOUSALAH ABOU BEKR BELKAID University, Tlemcen</td></tr> <tr> <td>Co-authors</td><td>HAYAT BENOSMAN, AMIN MOHAMMED RABAH, ZAKARIYA MOHAMMED BABA AHMED</td></tr> </table>	Participant	Fayza BOUSALAH ABOU BEKR BELKAID University, Tlemcen	Co-authors	HAYAT BENOSMAN, AMIN MOHAMMED RABAH, ZAKARIYA MOHAMMED BABA AHMED
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				
		<table border="1"> <tr> <td>Participant</td><td>Haroun Errachid ADARDOUR UHBC University, Chlef</td></tr> <tr> <td>Co-authors</td><td>SINGH MEHTAB, IKRAM KHELOUF, C. ABDELHAKIM FELLAGE</td></tr> </table>	Participant	Haroun Errachid ADARDOUR UHBC University, Chlef	Co-authors	SINGH MEHTAB, IKRAM KHELOUF, C. ABDELHAKIM FELLAGE
Participant	Haroun Errachid ADARDOUR UHBC University, Chlef					
Co-authors	SINGH MEHTAB, IKRAM KHELOUF, C. ABDELHAKIM FELLAGE					
15:00- 15:15	49	Design of a Miniature Circularly Polarized Microstrip Antenna for GNSSS Applications				
		<table border="1"> <tr> <td>Participant</td><td>Hayet BENOSMAN ABOU BEKR BELKAID University, Tlemcen</td></tr> <tr> <td>Co-authors</td><td>FAYZA BOUSALAH, AMINE RABAH</td></tr> </table>	Participant	Hayet BENOSMAN ABOU BEKR BELKAID University, Tlemcen	Co-authors	FAYZA BOUSALAH, AMINE RABAH
Participant	Hayet BENOSMAN ABOU BEKR BELKAID University, Tlemcen					
Co-authors	FAYZA BOUSALAH, AMINE RABAH					
15:15- 16:15		Poster session 1 & Coffee /Tea break				
16:15- 16:30	63	Numerical Dynamics Analysis of a Chaotic Third-Order Phase-Locked Loop				
		<table border="1"> <tr> <td>Participant</td><td>Mohammed BENDAOUD ABOU BEKR BELKAID University, Tlemcen</td></tr> <tr> <td>Co-authors</td><td>SAMIR KAMECHE, ACHOUR OUSLIMANI</td></tr> </table>	Participant	Mohammed BENDAOUD ABOU BEKR BELKAID University, Tlemcen	Co-authors	SAMIR KAMECHE, ACHOUR OUSLIMANI
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				
		<table border="1"> <tr> <td>Participant</td><td>Sofiane FISLI 8 Mai 1945- Guelma University</td></tr> <tr> <td>Co-authors</td><td>MOHAMED DJENDI</td></tr> </table>	Participant	Sofiane FISLI 8 Mai 1945- Guelma University	Co-authors	MOHAMED DJENDI
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				
		<table border="1"> <tr> <td>Participant</td><td>chebra abdennour FELLAG ABOU BEKR BELKAID University, Tlemcen</td></tr> <tr> <td>Co-authors</td><td>AHMED RIAD BORSALI, MEHDI ROUSSAT</td></tr> </table>	Participant	chebra abdennour FELLAG ABOU BEKR BELKAID University, Tlemcen	Co-authors	AHMED RIAD BORSALI, MEHDI ROUSSAT
Participant	chebra abdennour FELLAG ABOU BEKR BELKAID University, Tlemcen					
Co-authors	AHMED RIAD BORSALI, MEHDI ROUSSAT					
17:00- 17:15	89	Design and Simulation of U-slotted Microstrip Patch Antenna for L, S, C and X Band				
		<table border="1"> <tr> <td>Participant</td><td>Riadh DEGACHI University of El-Oued</td></tr> <tr> <td>Co-authors</td><td>GHENDIR SAID</td></tr> </table>	Participant	Riadh DEGACHI University of El-Oued	Co-authors	GHENDIR SAID
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				
		<table border="1"> <tr> <td>Participant</td><td>Bouchra MOULFI University of Ain Temouchent</td></tr> <tr> <td>Co-authors</td><td>SOUHEYLA FEROUANI, DJALAL ZIANI KERARTI AND FATIMA ZAHRA MOUSSA</td></tr> </table>	Participant	Bouchra MOULFI University of Ain Temouchent	Co-authors	SOUHEYLA FEROUANI, DJALAL ZIANI KERARTI AND FATIMA ZAHRA MOUSSA
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				
		<table border="1"> <tr> <td>Participant</td><td>Chaabane SOUMALI University of Yahia Fares Medea</td></tr> <tr> <td>Co-authors</td><td>MOUNIR BELATTAR</td></tr> </table>	Participant	Chaabane SOUMALI University of Yahia Fares Medea	Co-authors	MOUNIR BELATTAR
Participant	Chaabane SOUMALI University of Yahia Fares Medea					
Co-authors	MOUNIR BELATTAR					



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ICAECC '23
Général Chair

26 October 2023

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REGISTRATION

FACE TO FACE CONFERENCE ORAL SESSION (Physical)

ROOM A: Control Systems, Robotics and Automation

Session Chairmen	Dr. Soufyane CHEKROUN Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Benaoumeur IBARI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Mohammed El Amine SENOUSSAOUI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Adel BENABBOUN Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria				
	ID				
09:00- 09:15	114 Enhancing Industrial Process Control using multi-layer perceptron (MLP) <table border="1"> <tr> <td>Participant</td><td>Leila BENAISSA KADDAR University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td>Mohamed El Mehdi ZAREB</td></tr> </table>	Participant	Leila BENAISSA KADDAR University Mustapha Stambouli of Mascara	Co-authors	Mohamed El Mehdi ZAREB
Participant	Leila BENAISSA 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>BENAOUUMEUR 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	BENAOUUMEUR IBARI, MOURAD HEBALI, OMAR MEDJADJ, MOHAMMED EL-AMINE BEYOUR, AHMED FOITIH ZOUBIR
Participant	Rezali BAGHDADI University Mustapha Stambouli of Mascara				
Co-authors	BENAOUUMEUR 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	Poster session 2 & coffee break				
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 BENDIABELLAH</td></tr> </table>	Participant	Ameur Fethi AIMER University Dr. Tahar Moulay of Saida, Algeria	Co-authors	AHMED HAMIDA BOUDINAR, MOHAMED EL-AMINE KHODJA, AZEDDINE BENDIABELLAH
Participant	Ameur Fethi AIMER University Dr. Tahar Moulay of Saida, Algeria				
Co-authors	AHMED HAMIDA BOUDINAR, MOHAMED EL-AMINE KHODJA, AZEDDINE BENDIABELLAH				
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				



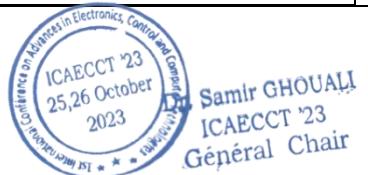
Dr. Samir GHOUALI
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11:15- 11:30	132	A comparative analysis of bioreactor system control with the high-order sliding controller and the classic sliding control
	Participant	Mohamed MESSABIH University of Science and Technology of Oran, USTO
	Co-authors	BACHIR DAAOU, ABDERRAHMENE KACIMI, ABDERRAHMENE SNOUSSAOUI
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	MOHAMED AMINE HAMADOUCHE, MUSTAPHA LALLAM, OUALID LARGUECHE, SOFIANE ADJLOUT

FACE TO FACE CONFERENCE ORAL SESSION (Physical)

ROOM B: Telecommunications and its Applications

Session Chairmen	Dr. Abdelfettah MIRAOUI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Mohamed MOULAY Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Mokhtar BESSEGHIER Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Belhassane AHMEDBLAHA Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria
	ID
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	
	Poster session 2 & coffee break
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 AZZOZ 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 OUSSAI 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	Prof. Youcef BENMIMOUN Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Fouad KHERBOUCHE Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Toufik Ahmed HOUARI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria				
	ID				
09:30- 09:45	138 Analyzing Particles Trajectories in a Free-Fall Electrostatic Separator <table border="1"> <tr> <td>Participant</td><td>Mohammed Fethi BEKKARA University Mustapha Stambouli of Mascara</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 University Mustapha Stambouli of Mascara	Co-authors	A. BOUARGOUB, A. CHELIH, D. AZZEDDINE, H.A. AZZEDDINE, Y. BENMIMOUN
Participant	Mohammed Fethi BEKKARA University Mustapha Stambouli of Mascara				
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"> <tr> <td>Participant</td><td>Hakim AIT SAID University of Relizane</td></tr> <tr> <td>Co-authors</td><td>ABDELKRIM LAIFAQUI, BOUZIANE MELIANI, MEZIANE KACI, NIHAD HEBBAR, MASSINISSA AISSOU, HAMOU NOURI</td></tr> </table>	Participant	Hakim AIT SAID University of Relizane	Co-authors	ABDELKRIM LAIFAQUI, BOUZIANE MELIANI, MEZIANE KACI, NIHAD HEBBAR, MASSINISSA AISSOU, HAMOU NOURI
Participant	Hakim AIT SAID University of Relizane				
Co-authors	ABDELKRIM LAIFAQUI, 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"> <tr> <td>Participant</td><td>Nour El Houda GABOUR University M'hamed Bougara Boumerdes</td></tr> <tr> <td>Co-authors</td><td>EL GHALIA BOUDISSA, FATIHA HABBI, MOHAMED BOUNEKHLA</td></tr> </table>	Participant	Nour El Houda GABOUR University M'hamed Bougara Boumerdes	Co-authors	EL GHALIA BOUDISSA, FATIHA HABBI, MOHAMED BOUNEKHLA
Participant	Nour El Houda GABOUR University M'hamed Bougara Boumerdes				
Co-authors	EL GHALIA BOUDISSA, FATIHA HABBI, MOHAMED BOUNEKHLA				

CLOSING CEREMONY



Samir GHOUALI
ICAECCT '23
Général Chair

CONFERENCE POSTER SESSION 2

Session Chairmen		Dr. Abdelkader BESSAKRA Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Isma HATRAF Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria
ID		
35	Planar Micro-Inductor Design for Stand-Alone Photovoltaic DC-DC Converter	
	Participant	Mokhtaria DERKAOUI National Higher School of Telecommunications & ICT of Oran
	Co-authors	YAMINA BENHADDA, AZZEDINE HAMID
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
42	Design and Realization of Power Divider Using Microstrip Stubs Line	
	Participant	Rahmouna EL BOUSLEMTI Ecole Nationale polytechnique d'oran, Maurice audin
	Co-authors	
41	Real-Time Hardware and Software System for Assistance in Daily-life Mobility of Visually Impaired Individuals	
	Participant	Rahmouna EL BOUSLEMTI Ecole Nationale polytechnique d'oran, Maurice audin
	Co-authors	N. BENTYAEB, W. KROUCHI
46	Implementation of GA based selective harmonic elimination pulse width modulation for two level three phase inverters using DSPACE DS1104	
	Participant	Lemya DJAFER Hassiba Benbouali University of Chlef
	Co-authors	Rachid TALEB, Fayçal MEHEDI, Aicha AISSA BOKHTACHE
58	U-Net vs. TransUNet for Weed Segmentation: A Comparative Study	
	Participant	Mohamed El Amine BOUHADJER Djillali Liabes University Sidi Bel Abbes
	Co-authors	SARAH MAZARI, MILOUD CHIKRELMEZOUAR
66	Design of an All-Optical Half Adder Around 1.31 μ m Based on Nonlinear 2DPhCRRs	
	Participant	Abdallah IKHLEF Abou Bakr Belkaïd University of Tlemcen
	Co-authors	HADJIRA BADAOUI, MEHADJI ABRI
173	Study of the MWT (Metal Wrap Through) heterojunction solar cell with numerical simulation	
	Participant	Nadjet BENADLA Abou Bakr Belkaïd University of Tlemcen
	Co-authors	



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

ROOM D: Control Systems, Robotics and Automation (VIRTUAL)						
Session Chairmen		Dr. Djamel Eddine CHAOUCH Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Adnane MOUFFAK Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Khatir TABTI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Djillali AZZEDDINE Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria				
	ID					
09:00- 09:15	93	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	146	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	99	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		Poster session 2 & coffee break				
10:45- 11:00	106	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 DEKHOUCHE</td></tr> </table>	Participant	Chaima TAMRABET Badji Mokhtar University, Annaba	Co-authors	ELIAS HADJADJ AOUL, MOHAMED TAHAR DEKHOUCHE
Participant	Chaima TAMRABET Badji Mokhtar University, Annaba					
Co-authors	ELIAS HADJADJ AOUL, MOHAMED TAHAR DEKHOUCHE					
11:00- 11:15	125	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					



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11:15- 11:30	135	Hybrid GA-ANN model for the prediction of EV Wheel speeds						
		<table border="1"> <tr> <td>Participant</td><td>Medjdoub KHESSAM</td></tr> <tr> <td></td><td>Center univ Naama</td></tr> <tr> <td>Co-authors</td><td>HAZZAB ABDELDJEBAR, MOUNA HADJADJ, REZKALLAH MILOUD, AMBRISH CHANDRA</td></tr> </table>	Participant	Medjdoub KHESSAM		Center univ Naama	Co-authors	HAZZAB ABDELDJEBAR, MOUNA HADJADJ, REZKALLAH MILOUD, AMBRISH CHANDRA
Participant	Medjdoub KHESSAM							
	Center univ Naama							
Co-authors	HAZZAB ABDELDJEBAR, 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						
		<table border="1"> <tr> <td>Participant</td><td>Oussama HAFSI</td></tr> <tr> <td></td><td>Ahmed Draia University, Adrar</td></tr> <tr> <td>Co-authors</td><td>MOHAMED AMINE SOUMEUR, MOHAMED AMINE HARTANI, ABDESELEM CHAKAR, AISSA BENHAMOU, OTHMANE ABDELKALEK</td></tr> </table>	Participant	Oussama HAFSI		Ahmed Draia University, Adrar	Co-authors	MOHAMED AMINE SOUMEUR, MOHAMED AMINE HARTANI, ABDESELEM CHAKAR, AISSA BENHAMOU, OTHMANE ABDELKALEK
Participant	Oussama HAFSI							
	Ahmed Draia University, Adrar							
Co-authors	MOHAMED AMINE SOUMEUR, MOHAMED AMINE HARTANI, ABDESELEM CHAKAR, AISSA BENHAMOU, OTHMANE ABDELKALEK							
11:45- 12:00	174	State Estimation for Nonlinear System Using Line Integral Lyapunov Function: A Polytopic Approach with Unmeasurable Premises						
		<table border="1"> <tr> <td>Participant</td><td>Khalida MIMOUNE</td></tr> <tr> <td></td><td>university of Biskra</td></tr> <tr> <td>Co-authors</td><td>KHALIDA MIMOUNE, MOHAMED YACINE HAMMOUDI, SOURI MOHAMED MIMOUNE</td></tr> </table>	Participant	Khalida MIMOUNE		university of Biskra	Co-authors	KHALIDA MIMOUNE, MOHAMED YACINE HAMMOUDI, SOURI MOHAMED MIMOUNE
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						
		<table border="1"> <tr> <td>Participant</td><td>Souad ANTEUR</td></tr> <tr> <td></td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td>BACHIR BOUIADJRA ROCHDI, MOHAMMED BENMADANI DEBBAT</td></tr> </table>	Participant	Souad ANTEUR		University Mustapha Stambouli of Mascara	Co-authors	BACHIR BOUIADJRA ROCHDI, MOHAMMED BENMADANI DEBBAT
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						
		<table border="1"> <tr> <td>Participant</td><td>Lebed Toufik</td></tr> <tr> <td></td><td>University of May 08, 1945 Guelma</td></tr> <tr> <td>Co-authors</td><td>ABDELHAK BOUKHAROUBA</td></tr> </table>	Participant	Lebed Toufik		University of May 08, 1945 Guelma	Co-authors	ABDELHAK BOUKHAROUBA
Participant	Lebed Toufik							
	University of May 08, 1945 Guelma							
Co-authors	ABDELHAK BOUKHAROUBA							

ROOM E: Electronics and its Applications (VIRTUAL)								
Session Chairmen		Prof. Abdelkader EL KEBIR Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Mourad HEBALI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Menouer BENNAOUM Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Abdelkader BAGHDAD BEY Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria						
	ID							
09:00- 09:15	12	Optimal Power Flow Solution using QPSODM Algorithm <table border="1"> <tr> <td>Participant</td><td>Mourad NAIDJI</td></tr> <tr> <td></td><td>Badji Mokhtar University, Annaba</td></tr> <tr> <td>Co-authors</td><td>MOURAD DAFRI, ABDELBASET LAIB</td></tr> </table>	Participant	Mourad NAIDJI		Badji Mokhtar University, Annaba	Co-authors	MOURAD DAFRI, ABDELBASET LAIB
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 <table border="1"> <tr> <td>Participant</td><td>Mourad NAIDJI</td></tr> <tr> <td></td><td>Badji Mokhtar University, Annaba</td></tr> <tr> <td>Co-authors</td><td>MOURAD DAFRI</td></tr> </table>	Participant	Mourad NAIDJI		Badji Mokhtar University, Annaba	Co-authors	MOURAD DAFRI
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				
		<table border="1"> <tr> <td>Participant</td><td>Yamina BENHADDA</td></tr> <tr> <td>Co-authors</td><td>K. MENDAZ, M. DERKAOUI, H. KHARBOUCH</td></tr> </table>	Participant	Yamina BENHADDA	Co-authors	K. MENDAZ, M. DERKAOUI, H. KHARBOUCH
Participant	Yamina BENHADDA					
Co-authors	K. MENDAZ, M. DERKAOUI, H. KHARBOUCH					
09:45- 10:45	Poster session 2 & coffee break					
10:45- 11:00	52	High Transmission Dielectric Grating at the Littrow Angle Using Antireflection Coating in the Visible Spectral Range				
		<table border="1"> <tr> <td>Participant</td><td>Mounira ZOUTAT</td></tr> <tr> <td></td><td>University of Sciences and Technology Houari Boumediene</td></tr> <tr> <td>Co-authors</td><td>BERBAR TARIK BOUZIAN</td></tr> </table>	Participant	Mounira ZOUTAT		University of Sciences and Technology Houari Boumediene
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				
		<table border="1"> <tr> <td>Participant</td><td>Jilali BERBARA</td></tr> <tr> <td></td><td>Tissemsilt University</td></tr> <tr> <td>Co-authors</td><td>MOURAD HEBALI, MOHAMMED EL-AMIN BEYOUR, MILOUD ABOOUN ABID, DJILALI CHALABI</td></tr> </table>	Participant	Jilali BERBARA		Tissemsilt University
Participant	Jilali BERBARA					
	Tissemsilt University					
Co-authors	MOURAD HEBALI, MOHAMMED EL-AMIN BEYOUR, MILOUD ABOOUN 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				
		<table border="1"> <tr> <td>Participant</td><td>Adnane MOUFFAK</td></tr> <tr> <td></td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td>HAZZAB ABDELDJEBAR, MOUNA HADJADJ, REZKALLAH MILOUD, AMBRISH CHANDRA</td></tr> </table>	Participant	Adnane MOUFFAK		University Mustapha Stambouli of Mascara
Participant	Adnane MOUFFAK					
	University Mustapha Stambouli of Mascara					
Co-authors	HAZZAB ABDELDJEBAR, MOUNA HADJADJ, REZKALLAH MILOUD, AMBRISH CHANDRA					
11:30- 11:45	200	Compact modeling of I-V characteristics in Al _x Ga _{1-x} N/GaN HEMTs				
		<table border="1"> <tr> <td>Participant</td><td>Nawel KERMAS</td></tr> <tr> <td></td><td>Tiaret university</td></tr> <tr> <td>Co-authors</td><td>Driss BOUGUENNA</td></tr> </table>	Participant	Nawel KERMAS		Tiaret university
Participant	Nawel KERMAS					
	Tiaret university					
Co-authors	Driss BOUGUENNA					
11:45- 12:00	220	Device Performance of AlGaN/AlN/GaN MIS HEMTs with La ₂ O ₃ high κ as Gate Dielectric Insulator Layer				
		<table border="1"> <tr> <td>Participant</td><td>Khaled HEBALI</td></tr> <tr> <td></td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td>DRISS BOUGUENNA, ABBES BELOUFA</td></tr> </table>	Participant	Khaled HEBALI		University Mustapha Stambouli of Mascara
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				
		<table border="1"> <tr> <td>Participant</td><td>Abdelali LAID</td></tr> <tr> <td></td><td>Sidi Bel Abbes University</td></tr> <tr> <td>Co-authors</td><td>ABID HAMZA</td></tr> </table>	Participant	Abdelali LAID		Sidi Bel Abbes University
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 ₃ NH ₃ SnI ₃ -based Perovskite Solar Cell by the SCAPS1-D simulator				
		<table border="1"> <tr> <td>Participant</td><td>Selma RABHI</td></tr> <tr> <td></td><td>University of Medea</td></tr> <tr> <td>Co-authors</td><td>ABDLEHADI SLAMI, FATIMA ZAHRA SAIDOUNE, KARIMA DADDA</td></tr> </table>	Participant	Selma RABHI		University of Medea
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				
		<table border="1"> <tr> <td>Participant</td><td>Faiza CHOULI</td></tr> <tr> <td></td><td>University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td>ABDELGHANI BENYOUCEF, SAMIA DAIKH, AMINA BEKHOUKH</td></tr> </table>	Participant	Faiza CHOULI		University Mustapha Stambouli of Mascara
Participant	Faiza CHOULI					
	University Mustapha Stambouli of Mascara					
Co-authors	ABDELGHANI BENYOUCEF, SAMIA DAIKH, AMINA BEKHOUKH					

ROOM F: Biomedical Engineering (VIRTUAL)

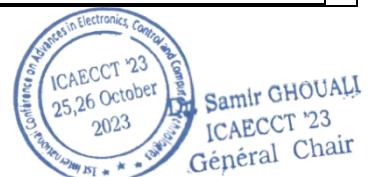
Session Chairmen	Dr. Ibrahim Farouk BOUGUENNA Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Khadidja GOUIZI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Ahmed BOUDAA Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Abderrahmane LOUNI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria						
	ID						
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: 15%;">Participant</td><td>Hatem ZEHIR Badji Mokhtar University, Annaba</td></tr> <tr> <td>Co-authors</td><td>TOUFIK HAFS, SARA DAAS</td></tr> </table>		Participant	Hatem ZEHIR Badji Mokhtar University, Annaba	Co-authors	TOUFIK HAFS, SARA DAAS
Participant	Hatem ZEHIR Badji Mokhtar University, Annaba						
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: 15%;">Participant</td><td>Ali Khan MOAZZAM Ziauddin University, Pakistan</td></tr> <tr> <td>Co-authors</td><td>MYRA ASLAM QURESHI</td></tr> </table>		Participant	Ali Khan MOAZZAM Ziauddin University, Pakistan	Co-authors	MYRA ASLAM QURESHI
Participant	Ali Khan MOAZZAM Ziauddin University, Pakistan						
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: 15%;">Participant</td><td>Abdelhai LATI University of Kasdi Merbah Ouarda (UKMO)</td></tr> <tr> <td>Co-authors</td><td>ZAKARIA MOKADEM, DJALILA BELEKBIR, DJIHENE NECIB AND RAYANE DJABOUREBBI</td></tr> </table>		Participant	Abdelhai LATI University of Kasdi Merbah Ouarda (UKMO)	Co-authors	ZAKARIA MOKADEM, DJALILA BELEKBIR, DJIHENE NECIB AND RAYANE DJABOUREBBI
Participant	Abdelhai LATI University of Kasdi Merbah Ouarda (UKMO)						
Co-authors	ZAKARIA MOKADEM, DJALILA BELEKBIR, DJIHENE NECIB AND RAYANE DJABOUREBBI						
09:45- 10:45	Poster session 2 & coffee break						
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: 15%;">Participant</td><td>Khalil Ibrahim LAIREDJ University of Djillali Liabes, Sidi Belabes</td></tr> <tr> <td>Co-authors</td><td>AMINA BAGDAOUI, SID AHMED BOUCENNA, ZOUAOUI CHAMA</td></tr> </table>		Participant	Khalil Ibrahim LAIREDJ University of Djillali Liabes, Sidi Belabes	Co-authors	AMINA BAGDAOUI, SID AHMED BOUCENNA, ZOUAOUI CHAMA
Participant	Khalil Ibrahim LAIREDJ University of Djillali Liabes, Sidi Belabes						
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: 15%;">Participant</td><td>Abdellatif BOUZID-DAHO University of TIZI OUZOU</td></tr> <tr> <td>Co-authors</td><td>Patrick SIARRY</td></tr> </table>		Participant	Abdellatif BOUZID-DAHO University of TIZI OUZOU	Co-authors	Patrick SIARRY
Participant	Abdellatif BOUZID-DAHO University of TIZI OUZOU						
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: 15%;">Participant</td><td>Djamila MEGHRAOUI University of Science and Technology Houari Boumediene</td></tr> <tr> <td>Co-authors</td><td></td></tr> </table>		Participant	Djamila MEGHRAOUI University of Science and Technology Houari Boumediene	Co-authors	
Participant	Djamila MEGHRAOUI University of Science and Technology Houari Boumediene						
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: 15%;">Participant</td><td>Abdallah BENGUEDDOUDJ University of bordj bou arreridj</td></tr> <tr> <td>Co-authors</td><td>MERWAN SAAD SAOUD, TAREK BENSIDHOUM</td></tr> </table>		Participant	Abdallah BENGUEDDOUDJ University of bordj bou arreridj	Co-authors	MERWAN SAAD SAOUD, TAREK BENSIDHOUM
Participant	Abdallah BENGUEDDOUDJ University of bordj bou arreridj						
Co-authors	MERWAN SAAD SAOUD, TAREK BENSIDHOUM						

11:45- 12:00	170	Internet of Things based Approach for Detecting Diabetes using Deep Learning Models				
		<table border="1"> <tr> <td>Participant</td><td>Messaoud HAMEURLAINE</td></tr> <tr> <td>Co-authors</td><td>Tissemilt Univesrsity</td></tr> </table>	Participant	Messaoud HAMEURLAINE	Co-authors	Tissemilt Univesrsity
Participant	Messaoud HAMEURLAINE					
Co-authors	Tissemilt Univesrsity					
12:00- 12:15	6	Facial kinship Verification using Siamese Neural Network				
		<table border="1"> <tr> <td>Participant</td><td>Abdelhakim CHERGUI</td></tr> <tr> <td>Co-authors</td><td>Ouargla University</td></tr> </table>	Participant	Abdelhakim CHERGUI	Co-authors	Ouargla University
Participant	Abdelhakim CHERGUI					
Co-authors	Ouargla University					
12:15- 12:30	40	Muscle movement detection				
		<table border="1"> <tr> <td>Participant</td><td>Fatima Ezahraa BARKAT</td></tr> <tr> <td>Co-authors</td><td>Oran1 Ahmed Ben Bella University</td></tr> </table>	Participant	Fatima Ezahraa BARKAT	Co-authors	Oran1 Ahmed Ben Bella University
Participant	Fatima Ezahraa BARKAT					
Co-authors	Oran1 Ahmed Ben Bella University					
12:30- 12:45	300	Development of GaN MOS-HEMTs transistors-based biosensors for the detection of a novel SARS-CoV-19 Virus				
		<table border="1"> <tr> <td>Participant</td><td>Faiza MOUFFOKI</td></tr> <tr> <td>Co-authors</td><td>University Mustapha Stambouli of Mascara</td></tr> </table>	Participant	Faiza MOUFFOKI	Co-authors	University Mustapha Stambouli of Mascara
Participant	Faiza MOUFFOKI					
Co-authors	University Mustapha Stambouli of Mascara					
12:45- 13:00	157	Detection of Spasmodic Dysphonia Voice Pathology using Deep Learning				
		<table border="1"> <tr> <td>Participant</td><td>Nardjes MERZOUGUI</td></tr> <tr> <td>Co-authors</td><td>University Badji Mokhtar Annaba</td></tr> </table>	Participant	Nardjes MERZOUGUI	Co-authors	University Badji Mokhtar Annaba
Participant	Nardjes MERZOUGUI					
Co-authors	University Badji Mokhtar Annaba					



ROOM G: HIGH VOLTAGE ENGINEERING AND APPLICATIONS (VIRTUAL)

Session Chairmen	Dr. Youcef Islam DJILANI KOBIBI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Moulay Idriss CHERGUI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Mohammed Fethi BEKKARA Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Maamar YAHIAOUI Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Hocine BOUCHEKARA Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria					
	ID					
09:15- 09:30	61	Utilizing Convex Optimization for State and Unknown Input Estimation in Polytopic Models				
		<table border="1"> <tr> <td>Participant</td><td>Khalida MIMOUNE</td></tr> <tr> <td>Co-authors</td><td>MOHAMED YACINE HAMMOUDI, SOURI MOHAMED MIMOUNE</td></tr> </table>	Participant	Khalida MIMOUNE	Co-authors	MOHAMED YACINE HAMMOUDI, SOURI MOHAMED MIMOUNE
Participant	Khalida MIMOUNE					
Co-authors	MOHAMED YACINE HAMMOUDI, SOURI MOHAMED MIMOUNE					
09:30- 09:45	83	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</td></tr> <tr> <td>Co-authors</td><td>IMAD MERZOUK</td></tr> </table>	Participant	Imane ALIA	Co-authors	IMAD MERZOUK
Participant	Imane ALIA					
Co-authors	IMAD MERZOUK					
09:45- 10:45	Poster session 2 & coffee break					
10:45- 11:00	86	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</td></tr> <tr> <td>Co-authors</td><td>NABIL SAHLI, MOHAMED BENMOHAMMED, LYES KHOUKHI</td></tr> </table>	Participant	Nousseiba GUERGOURI	Co-authors	NABIL SAHLI, MOHAMED BENMOHAMMED, LYES KHOUKHI
Participant	Nousseiba GUERGOURI					
Co-authors	NABIL SAHLI, MOHAMED BENMOHAMMED, LYES KHOUKHI					
11:00- 11:15	100	Fuzzy Logic and Neural Network Control of Unified Power Flow Controller Systems (UPFC)				
		<table border="1"> <tr> <td>Participant</td><td>Benyekhlef LAROUCI</td></tr> <tr> <td>Co-authors</td><td>AYAD AHMED NOUR ISLEM</td></tr> </table>	Participant	Benyekhlef LAROUCI	Co-authors	AYAD AHMED NOUR ISLEM
Participant	Benyekhlef LAROUCI					
Co-authors	AYAD AHMED NOUR ISLEM					
11:15- 11:30	110	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</td></tr> <tr> <td>Co-authors</td><td>RAMZI SAADI, MOHAMED YACINE HAMMOUDI, WAIL HAMDI AND ABIR BETKA</td></tr> </table>	Participant	Salah OKBA	Co-authors	RAMZI SAADI, MOHAMED YACINE HAMMOUDI, WAIL HAMDI AND ABIR BETKA
Participant	Salah OKBA					
Co-authors	RAMZI SAADI, MOHAMED YACINE HAMMOUDI, WAIL HAMDI AND ABIR BETKA					
11:30- 11:45	155	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</td></tr> <tr> <td>Co-authors</td><td>ABEDLHAFID SEMMAH, SIHAM KHELIFA</td></tr> </table>	Participant	Noureddine KHENFAR	Co-authors	ABEDLHAFID SEMMAH, SIHAM KHELIFA
Participant	Noureddine KHENFAR					
Co-authors	ABEDLHAFID SEMMAH, SIHAM KHELIFA					
11:45- 12:00	204	Analysis of Grid-tied Fuel Cell System with Synchronous Reference Frame Control				
		<table border="1"> <tr> <td>Participant</td><td>Yahia FOUGHALI</td></tr> <tr> <td>Co-authors</td><td>Mohamed MANKOUR, Mhamed SEKOUR</td></tr> </table>	Participant	Yahia FOUGHALI	Co-authors	Mohamed MANKOUR, Mhamed SEKOUR
Participant	Yahia FOUGHALI					
Co-authors	Mohamed MANKOUR, Mhamed SEKOUR					



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		
		<table border="1"> <tr> <td>Participant</td><td>Mohamed Abdelghani BENZIADA Ecole Nationale Polytechnique d'Alger</td></tr> <tr> <td>Co-authors</td><td>AHMED BOUBAKEUR, ABDELOUAHAB MEKHALDI</td></tr> </table>	Participant	Mohamed Abdelghani BENZIADA Ecole Nationale Polytechnique d'Alger
Participant	Mohamed Abdelghani BENZIADA Ecole Nationale Polytechnique d'Alger			
Co-authors	AHMED BOUBAKEUR, ABDELOUAHAB MEKHALDI			

ROOM H: E-poster Session (VIRTUAL)

Session Chairmen	Dr. Hocine Abdelhak AZZEDDINE Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Benameur AFIF Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Attaouia BENTAHAR Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria Dr. Isma HATRAF Faculty of Sciences and Technology University Mustapha Stambouli of Mascara, Algeria			
	ID			
Topic 1: Control Systems, Robotics and Automation				
09:00- 09:10	69	Chaotic Blended Biogeography-Based Optimization for Parameter Estimation of Induction Machine		
		<table border="1"> <tr> <td>Participant</td><td>Naas DIF University of Djelfa</td></tr> <tr> <td>Co-authors</td><td>EL-GHALIA BOUDISSA, FATIHA HABBI, MOHAMED BOUNEKHLA</td></tr> </table>	Participant	Naas DIF University of Djelfa
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		
		<table border="1"> <tr> <td>Participant</td><td>Karim BELALIA University of Relizane</td></tr> <tr> <td>Co-authors</td><td>ABDELKADER MOSTEFA, SOFIANE MIHOUBI, HOUARI MERABET BOULOUIHA</td></tr> </table>	Participant	Karim BELALIA University of Relizane
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		
		<table border="1"> <tr> <td>Participant</td><td>Hamid AOUDJEREGBA University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td>AHMED TAHOUR</td></tr> </table>	Participant	Hamid AOUDJEREGBA University Mustapha Stambouli of Mascara
Participant	Hamid AOUDJEREGBA 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		
		<table border="1"> <tr> <td>Participant</td><td>Abdelhaq LAOUI University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td>MOULAY-IDRISS CHERGUI, SOUFYANE CHEKROUN</td></tr> </table>	Participant	Abdelhaq LAOUI University Mustapha Stambouli of Mascara
Participant	Abdelhaq LAOUI 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		
		<table border="1"> <tr> <td>Participant</td><td>Yamina BENHADDA USTO, Oran</td></tr> <tr> <td>Co-authors</td><td>M. DERKAOUI, K. MENDAZ, H. KHARBOUCH</td></tr> </table>	Participant	Yamina BENHADDA USTO, Oran
Participant	Yamina BENHADDA 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				
		<table border="1"> <tr> <td>Participant</td><td>Mokhtaria DERKAOUI National Higher School of Telecommunications & ICT of Oran</td></tr> <tr> <td>Co-authors</td><td>YAMINA BENHADDA, AZZEDINE HAMID</td></tr> </table>	Participant	Mokhtaria DERKAOUI National Higher School of Telecommunications & ICT of Oran	Co-authors	YAMINA BENHADDA, AZZEDINE HAMID
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				
		<table border="1"> <tr> <td>Participant</td><td>Mokhtaria DERKAOUI National Higher School of Telecommunications & ICT of Oran</td></tr> <tr> <td>Co-authors</td><td>YAMINA BENHADDA, AZZEDINE HAMID</td></tr> </table>	Participant	Mokhtaria DERKAOUI National Higher School of Telecommunications & ICT of Oran	Co-authors	YAMINA BENHADDA, AZZEDINE HAMID
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				
		<table border="1"> <tr> <td>Participant</td><td>Toufik DIB University of Jijel</td></tr> <tr> <td>Co-authors</td><td>BOUBEKEUR BIROUK</td></tr> </table>	Participant	Toufik DIB University of Jijel	Co-authors	BOUBEKEUR BIROUK
Participant	Toufik DIB University of Jijel					
Co-authors	BOUBEKEUR BIROUK					
Topic 3: Telecommunications and its Applications						
		Localization of Mobile Robots with Global Position System Sensor				
11:35- 11:45	92	<table border="1"> <tr> <td>Participant</td><td>Wahiba MENASRI University of Yahia Farès Médéa</td></tr> <tr> <td>Co-authors</td><td>AMINA YAHIA, ABDELKADER MORSLI, MOHAMED LAMINE MOUHOUBI, AKIL BATTACHE, ABDEREZZAK GACEMI</td></tr> </table>	Participant	Wahiba MENASRI University of Yahia Farès Médéa	Co-authors	AMINA YAHIA, ABDELKADER MORSLI, MOHAMED LAMINE MOUHOUBI, AKIL BATTACHE, ABDEREZZAK GACEMI
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				
		<table border="1"> <tr> <td>Participant</td><td>Ghada MEBARKI University of Tlemcen</td></tr> <tr> <td>Co-authors</td><td>NAIMA BENMOSTEFA</td></tr> </table>	Participant	Ghada MEBARKI University of Tlemcen	Co-authors	NAIMA BENMOSTEFA
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				
		<table border="1"> <tr> <td>Participant</td><td>Noureddine SEDDIKI University of Tahri Mohamed Bechar</td></tr> <tr> <td>Co-authors</td><td>KAMAL ABDELMADJID MOKEDDEM</td></tr> </table>	Participant	Noureddine SEDDIKI University of Tahri Mohamed Bechar	Co-authors	KAMAL ABDELMADJID MOKEDDEM
Participant	Noureddine SEDDIKI University of Tahri Mohamed Bechar					
Co-authors	KAMAL ABDELMADJID MOKEDDEM					
Topic 4: Biomedical Engineering						
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				
		<table border="1"> <tr> <td>Participant</td><td>Mohamed ROUIS University of Djilali Bounaama-Khemis Miliana</td></tr> <tr> <td>Co-authors</td><td>SALIM SBAA, AYOUB TAALLAH, BOUNIF AOUDA</td></tr> </table>	Participant	Mohamed ROUIS University of Djilali Bounaama-Khemis Miliana	Co-authors	SALIM SBAA, AYOUB TAALLAH, BOUNIF AOUDA
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				
		<table border="1"> <tr> <td>Participant</td><td>Nail ALAOUI University ZIANE Achour de Djelfa</td></tr> <tr> <td>Co-authors</td><td>SOFIAN KIRECH, RANIA IBTISSEM BENMLOUKA, SOUAD KSENNA, LAKHDAR BOUHAMLA, ABDALLAH AZZOUZ</td></tr> </table>	Participant	Nail ALAOUI University ZIANE Achour de Djelfa	Co-authors	SOFIAN KIRECH, RANIA IBTISSEM BENMLOUKA, SOUAD KSENNA, LAKHDAR BOUHAMLA, ABDALLAH AZZOUZ
Participant	Nail ALAOUI University ZIANE Achour de Djelfa					
Co-authors	SOFIAN KIRECH, RANIA IBTISSEM BENMLOUKA, SOUAD KSENNA, LAKHDAR BOUHAMLA, ABDALLAH AZZOUZ					
Topic 5: High Voltage Engineering and Applications						
12:35- 12:45	259	Multiphysics Simulation of Submicron Particle Behaviour Inside a Novel Multicylinder Electrostatic Precipitator (MCESP)				
		<table border="1"> <tr> <td>Participant</td><td>Fouad Kherbouche University Mustapha Stambouli of Mascara</td></tr> <tr> <td>Co-authors</td><td></td></tr> </table>	Participant	Fouad Kherbouche University Mustapha Stambouli of Mascara	Co-authors	
Participant	Fouad Kherbouche University Mustapha Stambouli of Mascara					
Co-authors						



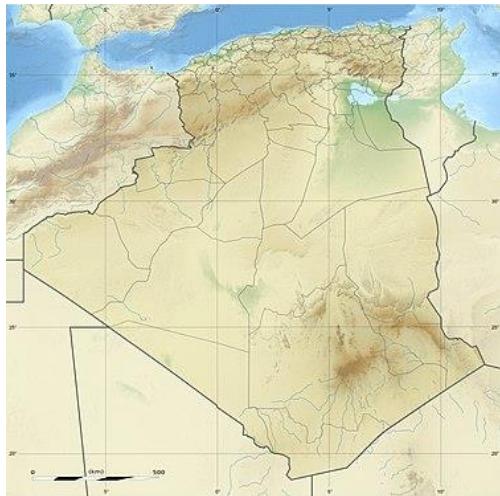
Samir GHOUALI
ICAECCT '23
Général Chair

The Venue



MASCARA, ALGERIA

ABOUT



Mascara (Arabic: معسکر, 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 بن 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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SCAN ME

