



Faculty of Sciences and Technology



International Conference

Program

October 01 - 03, 2024 – Ghardaia, Algeria



**International Conference on Green Hydrogen, Artificial
intelligence, Renewable energy and Electrical
engineering Systems: First Edition “IC-GARES’24”**

Octobre 1, 2024


 1st Day

09h00 – 09h30

Online Opening + General Session

09h30 – 12h00 \ on line presentation (Presentation : 10 min ; Debate : 05 min)

<i>ID</i>	<i>Presenter</i>	<i>co-authors</i>	<i>Title</i>
12	Samia Medjenah	Samia Medjenah , Farid Benamira	Solving the one-dimensional Schrödinger equation for a positiondependent mass particle, with a Hulthén-type mass distribution and a Morse potential
24	Abdesslam guerbouz	Imad merzouk , Ahmed hafaifa, fihakhir amine	Photovoltaic MPPT control using CUK converter based on super twisting control
39	El Mouatez Billah Messini	Yacine Bourek , Charaf Abdelkarim Mosbah	Comparative Study of evolutionary-based Metaheuristic Optimization Algorithms for PV Module Parameter Extraction
18	Abdelali laid	Bougenah Abdellah,Meksi aissa	Impact of zinc sulfide insulation layer on the Efficiency of CIGS solar cells
32	Khadidja Dahli	Karim Selam	Innovative Wind-Responsive Control for Preventing Torsional Galloping in Solar Power Installations
30	Yassine Bouroumeid	Mokhtaria Jbilou , Seyf Eddine Bechekir , Mouffok Arezki , Brahim el Khalil Oulad Naoui and Essama Ahmed. Ghaitaoui	Techno-Economic Analysis of Hybrid Renewable Power Generation Systems Across Various Climatic Zones in Algeria
22	Messaouda chaib	Ali benatillah, Nadir Hachemi, Abdeldjalil Dahbi	Evaluating Performance Decline and Investigating Root Causes for a Solar Power Plant in Southern Algeria,
31	MOHAMED TAHAR BOUZAHER	ABDELHAMID BOUZAHER	Photovoltaic Panel Faults Diagnosis: The use of the bishop model for confirmation of the diagnosis method based on the fill factor analysis and use of Artificial Intelligence techniques
27	Nadir Hachemi	Elfahem Sakher ,Messaouda Chaib, Rachid Tigrine, Faïçal Baira	SEM microstructure comparison between EVA above the cell and EVA below the photovoltaic cell of a degraded solar panel
13	BEKKAR Belgacem	BEKKAR Belgacem, ZITANI Brahim	Genetic Algorithm Optimization of Advanced Sliding Mode Controllers with Double Integral Terminal for Magnetic Levitation System

Octobre 2, 2024

2nd Day

08h00 – 08h30

Desk Registration

08h30 – 09h30

Official opening

Speech: University Director\Dean of faculty\Chairman of conference

Plenary session 09h45 – 10h30

Title: Towards the Realization of the Energy Internet: IoT Technologies for the Massive Integration of Distributed Energy Sources

Speaker: **Pr. Panagiotis G. Papageorgas**

University of West ATTICA Greece



10 :30h - 11h00

Plenary session 11h00 – 11h45

Title: Energy transition governance: Challenges and Strategies

Speaker: **Pr. Ali CHEKNANE**

Amar Telidji University of Laghouat, Algeria

Plenary session 11h45 – 12h30

- Title: Hydrogen energy storage technologies

Speaker: **Pr Mohamed Badreddine BENCHERIF**

UTBM France

Title:

- Electric Vehicle
- Impact of Digital Transformation on Alternative and Green Energies

Speaker: **Pr. ILHAMI Colak**

Istinye University

Turkey



12h30 - 14h00

Octobre 2, 2024


 2nd Day

14h00 – 15h30 \ Room 1 (Presentation : 10 min ; Debate : 05 min)			
ID	Presenter	co-authors	Title
46	Birane Mouhoub	Seba Samah, Birane Mouhoub, Benmouiza Khalil	Analysis and Modeling of P&O and Beta MPPT Algorithms under Partial Shading Photovoltaic Systems
45	KOUADRIA Mohamed	KOUADRIA Mohamed, ARAB Mustapha, ZEGAOUI Abdellah	Diagnosis of Stator Faults in an Induction Motor Using the Matrix Pencil Method
33	Slimane Sayah	Mouhoub Birane, Khalil Benmouiza, Abdelkader Firah, Aicha Degla.	Long Short-Term Memory Network-Based Control for Single-Phase Grid-Connected Inverter
68	Babaousmail Moussa	hattara Abdelouahab	PV and Wind sources integration, power flow analysis and data visualization
69	Guerbouz Abdesselam	Amine Mehdi FIIAKHIR	Nonlinear Control with Genetic Algorithm of UAV Type HELIPLANE
94	Abdelkader ELMEDDAH	Djalloul ACHOUR	"Optimal design parameters of cylindrical pumps for water pumping system"
20	Bouguenna Abdellah	Bouguenna Ibrahim Farouk, and Ouslim Mohamed	Study and simulation of intelligent sensor using the microchip dspic30F
62	Ouarniki Hadj Abdelkader , Gama Amor , Mosbah Charaf Abdelkarim , Yattou Fatiha	Gama Amor , Mosbah Charaf Abdelkarim , Yattou Fatiha	Empirical investigation and prediction of Linke turbidity factor through Artificial intelligence methods: an experimental approach
19	CHACHI Mohamed	KAMLA Youcef, BENHARKAT wiam, LARCH nadia,	"Etude expérimentale et réalisation d'une éolienne à axe Vertical de type SAVONIUS

(18h00 – 20h00)

Evening
Gala dinner

Octobre 3, 2024

3rd Day

Plenary session 9h00 – 9h45

Title: Application of Artificial Intelligence Technique in Photovoltaic systems

Speaker: **Pr. Adel MELLIT**

University of Jijel, Algeria

Plenary session 09h45 – 10h30

Title: Innovative Exploration of Green Hydrogen

Speaker by: **Dr Mohamed KHERAT**

Centre de Développement des Energies Renouvelables (CDER), Algeria



10h30 - 11h00

09h00 – 11h00 \ Room 2 (Presentation : 10 min ; Debate : 05 min)			
ID	Presenter	co-authors	Title
16	Saggai Abdelmoula	Saggai Abdelmoula ,mehdadi Khaled , Benras Mohamed Taher ,Hadjaidji elmoundher	Fault Tolerant Control of an UAV type Octorotor Against Wind Gusts
67	Mohamed Kellal	Abdellah Zegoui, Mustapha,Ilhami COLAK Tayeb ALLAOU, ARAB,	Modeling of the Characteristics I-V and P-V of an HVDC PV array under partial shading using Proteus ECAD
44	SAHNOUN M'hamed	SAHNOUN M'hamed, SADOUNI Radhwane , DJERIOU Salim	Indirect Rotor Field-Oriented Control for Dual Stator Induction Motor Used in Solar Water Pumping System
38	Benali AIOUACHE	Benali AIOUACHE, M'hamed HELAIMI, Abdelkadir BELHADJ DJILALI Hadj ALLOUACHE and Adil YAHDOU	Frequency oscillation control of an islanded microgrid system based on PSO-PID controller
65	Belhadj benziane Izzessalam	Izzessalam, ZEGAOUI Abdallah,Bouchelga Fatma,Kellal Mohamed,ARAB Mustapha,ALLAOUI Tayeb,ilhami COLAK	Influence of Irradiation on Distributed PV Architecture Dedicated to DC Power Transmission
60	Rabah Benabid	Rabah Benabid	NPP flexibility modeling in interconnected grid considering power ramp ratio limit
47	Zababe ilyes	sadouni radhwane ,moussa oussama	"Detection Inter-Turn Short Circuit Fault in induction motor using Artificial neural network

11h00-12h00

Closing ceremony and certificate of participation



(12h00 – 13h30)

