






SUNDAY 26 NOVEMBER 2023

Conservatoire National des Formations à l'Environnement

-----Maison de l'Environnement de Tipasa, Algeria-----

<https://meet.google.com/gsb-twwf-eyn>

8h00		REGISTRATIONS	
8H30		Dr. Mustapha HATTI; Pr. Kamel BOUSSAFI; Mr. Hicham METROUH OPENING CEREMONY & WELCOME WORDS	Tipasa Smart City Association
Auditorium		KEYNOTE SPEAKERS	
9H00		Pr. Adel MELLIT <u>Univ. Jijel, ALGERIA</u> TinyML and IoT for fault diagnosis and monitoring of PV plants: Challenges, recommendations and future directions	
10H00		Pr. Marouane DEBBAH <u>Univ. Khalifa UAE, (visio-conference)</u> Large Language Models for Telecom	
11H00		COFFEE BREAK	
11H30		Pr. Mohamed BENBOUZID <u>Univ. Brest FRANCE) visio-conference)</u> Resilient Control: A Key Enabler in Improving Tidal Stream Turbines Survivability	
12H30	Hall	POSTER SESSION	
Prof. Youcef SOUFI (Univ. Tebessa) ; Prof. Abdelkader AISSAT ; Dr. Sabri BOULOUMA (UDES/CDER) Dr. Mohamed AYAD (UDES) ; Dr. Saliha AREZKI (USTHB)			
	54	New Hybrid Optimized MPPT Technique for PV Systems Under Partial Shading Conditions. <u>Department of electronics, University of Setif-1, Setif, Algeria</u>	Anis KRIM
	7	An IoT-based System to Control the Greenhouse's Microclimate. <u>Computer Science Department, Faculty of Science Exact, University Tahri Mohamed of Bechar, Algeria</u>	Noureddine SEDDIKI
	6	An overview of Flying Ad-Hoc Networks. <u>Computer Science Department, Faculty of Science Exact, University Tahri Mohamed of Bechar, Algeria</u>	Moham BELGHACHI
	27	Pathfinding of a Mobile Robot by the Algorithm A star (A*). <u>Yahia Fares De Medea University: Faculty of Technology, Department of Electrical Engineering, Medea, Algeria</u>	Nawres BOUAM
	88	The Traction Chain of an Electric Vehicle. <u>LEESI laboratory, Ahmed Draia University, Adrar, Algeria</u>	Nawal TOUHAMI
	90	A Review on Network Layer Attacks in Wireless Sensor Network and Defensive Mechanisms. <u>Department of Mathematics and Computer Science, Tahri Mohammed University, Bechar, Algeria</u>	Sana TOUHAMI
	59	Study and Simulation Photodetector MSM based on Al0.25Ga0.75N/GaN. <u>Faculty of Technology University of Blida 1, Laboratory LATSI Faculty of Technology University of Blida.1, 09000, Blida, Algeria</u>	Abdelkader AISSAT
	108	Enhancement of Thermal Conductivity and Melting Performance of Phase Change Materials through Hybrid Nanoparticles. <u>Mechanical Engineering, Materials and Structures Laboratory, TISSEMSILT university, Tissemsilt, Algeria</u>	Nassira CHERIET
	8	Hydrodynamique Lubrication Analysis in Self-Lubricating Journal Bearings using Power Law Fluid Model. <u>LTI, Dept. GMP National High School of Technology Bordj El Kiffan, Algiers, Algeria</u>	Maamar MALKI
	105	A Comparative Study of Speed Control Strategies for In-Wheel Direct Current Machines in Electric Vehicles: PI, Fuzzy Logic, and Artificial Neural Networks. <u>LREA Laboratory, Yahia Fares University Medea, Algeria</u>	Ali HAMIL



95	IoT-Driven Automation in Vertical Farming: A Survey. Department of Maths and Computer Science, Tahri Mohammed University-Béchar, Béchar, Algeria	Amina BOUROUIS
42	Energy Monitoring on Stand-Alone Solar PV-driven Cold storage in the Rural desert area. Unité de Recherche en Energies Renouvelables en Milieu Saharien, URERMS, Centre de Développement des Energies Renouvelables, CDER, 01000, Adrar, Algeria	Mouloud TIZZAOUI
56	Implementation of Smart Parking using an IoT based system. Institute of Electrical and Electronic Engineering, University of Boumerdes, Algeria.	Dalila CHERIFI
113	Frequency characterization of water solutions used in electrolysis for production of H ₂ USTHB: University of Science and Technology Houari boumedienne, FEI, LCDEP. Algiers, Algeria.	Selma ZENATI
112	Bidirectional Charging Impact Analysis of Electric Vehicle Battery Cycle Aging Evaluation in Real World, Under Electric Utility Grid Operation. Research Center in Industrial Technologies – CRTI Cheraga 16014 Algiers, Algeria	Fouzia BRIHMAT
37	Decreasing the toxicity of Pb-based Perovskite solar cells. Algerian Space Agency-Satellite development center Bir El Djir 31130 -Oran-Algeria	Ahmed-Ali KANOUN
38	Numerical study of Perovskite solar cells based on MgGe _{0.50} Sn _{0.50} I ₃ . Algerian Space Agency-Satellite development center Bir El Djir 31130 -Oran-Algeria	Faiza MERAD
82	Physical properties of TiO ₂ Nanotubes grow in different electrolytes by varying anodizing parameters Laboratory of Advanced Technologies of Genie Electrics (LATAGE), Faculty of Electrical and Computer Engineering Mouloud Mammeri University (UMMTO), BP 17 RP 15000, Tizi-Ouzou, Algeria	Henia FRAOUCENE

14H00 **LUNCH**

ROOM Visioconf. REMOTE SESSION
Chair persons **Dr. Dalila CHERIFI (UMBB); Dr. Zineb ROUABAH (Univ. BATNA2) ; Dr. Kheireddine MERHOUM (UMBB)**

15h00	55	Shoot-Through Duty Ratio in Modulated Model Predictive Control for Quasi-Z-Source Based on Fuzzy Logic. Department of electronics, University of Setif-1, Setif, Algeria	Fateh KRIM
15h10	44	Development of an Integral Fractional Order Super Twisting Sliding Mode Controller for Electric Vehicle. Laboratory of Materials, Energy Systems, Renewable Energies and Energy Management, Amar Telidji, Algeria	Mohammed Kabir Billal BOUMEGOUAS
15h20	41	Attacks and countermeasures in Wireless sensor networks. Department of Mathematics and Computer Science, Faculty of Exact Sciences University of Ghardaia, Ghardaia, Algeria.	Ahmed SAIDI
15h30	29	Improving Wind Turbine Performance in Residential Grid-Connected System operating at variable wind conditions with a WOA-MPPT Based strategy. Laboratory of Advanced Electronic Systems (LSEA): Electrical Engineering Department, Faculty of Technology, University of Medea, Medea, Algeria	Nadia DOUIFI
15h40	104	The NDT-FC simulation using the 3D FEM. ENS of Laghouat, LPM Laboratory, University Amar Telidji, Laghouat, Algeria	Safia KHELFI
15h50	86	Magnetic Field Modeling and Study Produces of High Voltage Overhead Power Line. Ammar Telidji University of Laghouat, Electrical Engineering Department, LACoSERE laboratory, BP 37G route of Ghardaia, Laghouat 03000, Algeria	Salah-Eddine HOUICHER
16H00	34	Design of a Hybrid Photovoltaic-Thermal Solar Collector: Utilization of High-Efficiency Perovskite-Based Solar Cell. Unité de Recherche Matériaux et Energies Renouvelables URMER, University of Tlemcen, Abou Bekr Belkaid, BP 119, Tlemcen13000, Algeria	Hadjer SOUFI
16H10	45	Analyzing the Generated Power for different CubeSats Solar Panel Configurations Department of Research and Space Instrumentation DRIS, Satellites Development Centre CDS, Algerian Space Agency ASAL, Po Box 4065, Ibn Rochd USTO-MB, Bir El Djir, 31130 Oran, Algeria	Abdelkader HADJ DIDA
16H20	85	Small UWB antenna for GPR applications in VHF/UHF bands. LTI Lab Ecole Nationale Supérieure des Technologies Avancées, Algiers, Algeria	El-Hadi KHOUMERI

-----16H00----- FIRST DAY CLOSING



MONDAY 27 NOVEMBER 2023

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08H00		REGISTRATION	
Room A		INTERNET OF THINGS	
Chairpersons		Dr. Fathia CHEKIRE (UDES-CDER); Dr. Abdelkrim MEZIANE (CERIST)	
09H00	48	Using The PSO Algorithm to Optimize a Self-Tuning PID-Type Fuzzy Controller for Indoor Temperature. <i>Faculty of Sciences and Technology, Ziane Achour University, BP 3117, Djelfa, Algeria</i>	Slami SAADI
09H30	89	A System for Monitoring Hydroponic Plants in Greenhouse Using WSN, IoT and RnE. <i>Department of Mathematics and Computer Science, Ali Kafi University Center, Tindouf, Algeria</i>	Achouak TOUHAMI
10H00	93	Dynamic Load Balancing in Cloud-IoT based on Neural Network Classification and GGA Optimization. <i>ICOSI Laboratory, Department of Mathematics and Computer Science, Abbes Laghrour University, Khenchela, Algeria</i>	Sofiane BENABBES
Room B		SMART CONTROL	
Chairpersons		Prof. Cherif BENOUDJAFER (Univ. Bechar) ; Dr. Fares MEZIANE (CDER)	
09H00	103	Sensorless Speed Based on MRAS with an FLC Controller of Induction Motor drive using AGs. <i>University of Sciences and Technology of Oran (USTO) Oran, Algeria</i>	M'hamed CHEBRE
09H30	31	A Novel CNN-SVM Hybrid Model for Human Activity Recognition. <i>Department of Telecommunications, University of Science and Technology Houari Boumediene, Algiers, Algeria</i>	Imene CHARABI
10H00	51	Design and Implementation of a Solar-Powered Irrigation Pivot System with Remote Control via Android Application for Sustainable Agriculture. <i>Electronics dept., Faculty of Electrical Engineering, University of Science and Technology Houari Boumediene (USTHB), P.O. Box.32, Bab-Ezzouar 16111 Algiers, Algeria</i>	Merzak FERROUKHI
Room C		ARTIFICIAL INTELLIGENCE	
Chairpersons		Prof. Adel MELLIT (Jijel Univ.) ; Prof. Güngör BAL (Gazi Univ.)	
09H00	78	Improved Power Quality with Active Shunt Power Filter based on MPPT Firefly Controller of a Wind Turbine. <i>Electrical Engineering Department, Research Laboratory in Electrical Engineering and Automatic (LREA), University of Médéa, Médéa, Algeria</i>	Amel ABBADI
09H30	111	Photovoltaic System with Fuzzy-Direct Torque Control Technique for Standalone Application. <i>Laboratoire LTI, Electrical Engineering department, Bejaia University, Bejaia, Algeria</i>	Zahra MOKRANI
10H00	5	Variation of the Speed of a DC Motor powered by the Photovoltaic Generator using MPPT control. <i>University of Technology, University of Djillali Liabés, Irecom Laboratory, Sidi bel abbes, Algeria</i>	Fatima MOULAY
11H00		COFFEE BREAK	
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Room A		ENERGY MANAGEMENT	
Chairpersons		Prof. Fateh KRIM (Univ. Setif) ; Dr. Nesrine HATRAF (UMBB) ; Prof. Abdelkader DOUADI (Univ. Tipasa)	
12H00	60	Blockchain based identity management. <i>Laboratory of Computer System, USTHB, Algiers, Algeria</i>	Ahmed BERBAR
12H30	92	Proposal of a Methodology for Creating a Corpus for Algerian SMS <i>LCPTS Laboratory, FGE, USTHB University, Algiers, Algeria</i>	Brahim DAHOU
13H00	52	The Relationship between Renewable Energy Consumption and Financial Development Index: A Panel Model for 12 Arab Nations <i>Center University of Maghnia, LEPPESE Laboratory, Maghnia, Algeria</i>	Salah Eddine SARI-HASSOUN
13H30	43	Integration of renewable energy systems in building: Case of solar collectors and photovoltaic panels for the tertiary and residential sector in Algiers <i>Architecture and Environment Laboratory LAE, Polytechnic school of Architecture and Urbanism EPAU, Algiers, Algeria.</i>	Ouahiba TIZOUJAR
Room B		CONTROL AND OPTIMIZATION in RENEWABLES	
Chairpersons		Prof. Slami SAADI (Univ. Djelfa) ; Prof. Kamel GUESMI (Univ. Reims-France)	
13H00	96	Task Scheduling in a Multiprocessor System. <i>Computer Science Department, Abbes Laghrou University, Khenchela 4000, Algeria</i>	Ouided HIOUAL
12H00	114	Hyperstability Criterion in Model Reference Adaptive Control: Enhancing Induction Motor Efficiency for Autonomous Electric Vehicles. <i>Department of Automation & Control Systems, Yahia Fares Medea University, Medea, Algeria</i>	Asma GUENDOUIZ
12H30	25	MOTH-FLAME-MPPT Algorithms of PV Panels Under PSC. <i>Research Laboratory in Electrical Engineering and Automatic, Medea University, Algeria</i>	Fethia HAMIDIA
13H00	100	Kalman MPPT Controller for Home Turbine Connected to the Utility Grid. <i>Electrical Engineering Department, Research Laboratory in Electrical Engineering and Automatic (LREA), University of Médéa, Médéa, Algeria</i>	Amel ABBADI
13H30	71	New Intelligent Neural Network Program Developed Based on Revolutionary Predictive Control for a System Tracking. <i>Electrical Engineering Laboratory, Faculty of Technology, University of Bejaia, 06000 Bejaia, Algeria</i>	Wassila ISSAADI
14H00		LUNCH	
		 Visit Tour à Tipasa (Village Romain) https://meet.google.com/gsb-twwf-eyn    	
SECOND DAY CLOSURE			
16H00			



TUESDAY 28 NOVEMBER 2023

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Welcome COFFEE & TEA

Room B		FAULT DETECTION & CLASSIFICATION	
Chairpersons		Prof. Mohamed RIAHLA (UMBB); Dr. Saad ALDOIHI (KACST) ; Dr. Faycal CHABNI (Univ. Tipasa)	
09H00	74	TinyML model for fault classification of photovoltaic modules based on visible images. <i>Renewable Energy Laboratory, University of Jijel, Jijel, Algeria</i>	Adel MELLIT
09H30	62	Development of a hybrid DLDH fault detection and localization algorithm for two types of PV technologies with experimental validation. <i>Laboratory of electrical and industrial system, University of Sciences and Technology (USTHB), Algiers, Algeria</i>	Saliha AREZKI
10H00	94	A decision-making model for self-adaptation of cyber-physical systems: application to smart grids. <i>Mathematics and Computer Science Department, Abbes Laghrou University, Khenchela, Algeria</i>	Ouassila HIOUAL
10H30	97	Defect detection in photovoltaic module cell using CNN model. <i>Faculty of Electrical Engineering, University of Science and Technology Houari Boumediene (USTHB), BP 32, El Alia, 16111 Bab-Ezzouar, Algiers, Algeria</i>	Nadia DRIR
11H00	64	Efficient Solar Energy Harvesting and Power Management for Electric Vehicles using MPPT under partial shading conditions and Battery/Super-capacitor Integration. <i>LREA Laboratory, Yahia Fares University Medea, Algeria</i>	Ali HAMIL
Room C		SMART GRID & GRID-CONNECTED	
Chairpersons		Prof. Younes CHIBA (Univ. Medea) ; Prof. Katia KOUZI (Univ. AT Laghouat) ; Dr. Fateh AKEL (UDES/CDER)	
09H00	91	Application of machine learning forecasting model for renewable generations of Adrar's power system. <i>Centre de Développement des Energies Renouvelable, BP. 62, Route de l'Observatoire Bouzareah, Algiers, Algeria</i>	Saida MAKHLOUFI
09H30	23	Study of Total harmonic distortion in grid-connected Photovoltaic system. <i>Department of Electrical Engineering, Tahri Mohamed University Bechar, Algeria</i>	Assia BELLIA HABBATI
10H00	53	Optimal Design of an Off-Grid Photovoltaic-Battery System for UAV Charging in Wildlife Monitoring. <i>Research Centre in Industrial Technologies (CRTI), P.O.Box 64, Cheraga 16014, Algiers, Algeria</i>	Fadhela FODHIL
10H30	66	Performance Evaluation of a Real Polycrystalline Photovoltaic Field Under Desert Conditions. <i>Unité de Recherche en Energies Renouvelables en Milieu Saharien (URERMS), Centre de Développement des Energies renouvelables (CDER), 01000, Adrar, Algeria</i>	Abdeldjalil DAHBI
11H00	79	Cooling Load Forecasting Through an Innovative Environmental Awareness Module. <i>Renewable Energy Department. University of Blida, Saad Dahleb, Blida, Algeria</i>	Amine BELKHIR
11H30		workshop ****3D Design**** & CLOSING CEREMONY	
13H00		Dr. Fouzi HADDAD ; Dr. Zoubir BELGROUN ; Mr. Kheirddine MERHOUM https://meet.google.com/gsb-twwf-eyn	
13H00		LUNCH	