



DJILLALI LIABES UNIVERSITY
SIDI BEL ABBES
FACULTY OF ELECTRICAL ENGINEERING

THE 5TH ELECTRICAL ENGINEERING DOCTORAL DAYS ⚡ JDGE'24

The Faculty of Electrical Engineering, in collaboration with its nine research laboratories, is organizing the Fifth Doctoral Days of Electrical Engineering on November 5 and 6, 2024.



PhD students of the faculty are invited to submit an extended abstract (in English) online via the following link:

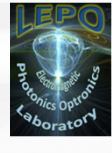
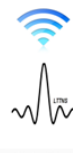


The scientific committee will select the papers to be presented in the form of poster presentations. A certificate of participation will be issued to attendees at the end of the workshop.

Important dates :



- Abstract's extended submission deadline : October 18th , 2024
- Notification of acceptance : October 24th , 2024
- Conference dates : November 5th and 6th , 2024





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**THE 5TH ELECTRICAL ENGINEERING
DOCTORAL DAYS JDGE'24**
CONFERENCE PROGRAM



Poster session 01 : Day 1 : Tuesday 05th November 2024 - 15h00

**Presidents : Dr.S.Driz , Dr.I.Ouahab , Dr.A.H.Kacha , Dr.M.Benamara , Dr.S.Mazari ,
Dr.C.Zouaoui , Dr.A. Ghaz , Dr.K. Sahraoui , Dr.A. Nakerla , Dr.S. Bendimerad , Dr. S. Nemmiche**

P1	Hammouche	KHALES	Simulation Study of Current Mechanisms in Au/ GaAs and Au/GaN/GaAs Schottky Diodes
P2	Hadjouni	Amine	Performance optimization of the InGaN Single Junction Solar Cell using SILVACO TCAD
P3	fayssal	mekaret	Influence of Interface Thickness and States density on Ideality Factor in Schottky Diodes based on SiC polytypes
P4	Toumi	Hayet	Study of the Current-Voltage Characteristics in Nitride GaAs Schottky Diode
P5	AIT YAHIA	Abdellah Walid	Experimental analysis of metallic particles attraction using traveling wave conveyors
P6	AMARA	MOHCINE	Étude expérimentale de la corrélation entre la fréquence de commutation et les émissions électromagnétiques générées par un convertisseur DC/DC motorisé
P7	Naima	MILOUDI	CM and DM Interference in Switch Mode Power Converter
P8	HAKMI	YASSINE	High-Frequency DM Impedance-Based Electrical Circuit Models for Three-Phase Induction Motors Valid Up to 110 MHz
P9	Imane	ZENNANI	A new electrostatic separation technique using a midpoint transformer to supply a double side spinning actuator
P10	GOFFA	Adel Ilyas	The Impact of Input Bands on Change Detection in Satellite Images Using UNet++
P11	Mohammed Chaouk	ZIARA	Depth prediction using histogram estimation
P12	Miloud	Chemam	Accelerated Version of MRF-based deformable image registration using Openmp
P13	Mohamed El Amine	BOUHADJER	Performance Evaluation of UNet-ResNet34 on RGB, ExG, and CIVE for Weed Segmentation
P14	BENCELLA	Sarra	LSB Based Digital Image Watermarking using Entropy
P15	KECHKECHE	Amal	PoolCache in Named Data Networking for the IoT
P16	Sofiane	BENIEDDI	Balancing Efficiency and Complexity: Investigating MAM Techniques for NOMA in 5G and Future Generations
P17	Tou	Amar	Enhancing FSO Link Reliability: A Comparative Study of Advanced Modulation Schemes under Atmospheric Turbulence
P18	Meryem Rameissa	DJELLOULI	Exploring the Integration of DICOM Systems within DVB-RCS2: A Theoretical Framework for Telemedicine Applications
P19	Sadjida	LEBID	Balancing Performance and Fairness in MPTCP: A Review of the TCCC Algorithm
P20	Aicha	Meghraoui	Capability of Visible Light Communication in Vehicular Applications
P21	Kebaili	Rima	Optimizing Channel Attenuation Prediction in WDM FSO Systems Using Artificial Neural Networks

P22	HALIMA	CHAHED	Enhancing VLC Channel Resilience to Ambient Light Interference using $\text{CaLa}_4(\text{SiO}_4)_3\text{O}:\text{Eu}^{3+}$ LEDs
P23	benhassaini	abdelatif	Optimisation du PSNR pour les flux MPEG-DASH : gestion du décalage des trames lors du transcodage avec FFmpeg
P24	Nour el houda	Bouda	Analysis of C-V2X Based NOMA System Performance in High-Speed Vehicular Networks under Varying velocity Conditions
P25	Amina	Tioursi	Investigation of the Correlation Between Solvent Choice and the Properties of SnO_2 Thin Film
P26	Ayoub	MDERBEL	Enhanced Cuckoo Search Algorithm for Efficient MPPT in Photovoltaic Systems under Dynamic Irradiance Conditions
P27	Berrabah	Zouaoui	VHDL BASED Maximum Power Point Tracking of Photovoltaic Using Rao1 Controller

Poster session 02 : Day 2 : Wednesday 06th November 2024 - 10h00
Presidents : Dr.F.Nouar , Dr.M.Oukli , Dr.S.Ardjoun , Dr.S.Touhami , Dr.Y.Djeriri , Dr.S.Massoum , Dr.B.Berrahel , Pr.M.Ghezali

P1	Hadj Barkat	KAAROUR	Simulation and Optimization of a Lead-Free Perovskite Light-Emitting Diode
P2	Ikram	ZIDANI	Impact of Hetero Tunnel junction Layer On Performance of InGaP/GaAs Dual junction Solar cells
P3	Arbi	Kada Benchiha	Effect of Temperature on Cu/InGaN Schottky Barrier Diodes: A Text-Based Comparative Study
P4	Delloum	Amira	Electronic structure of $(\text{GaBi})_m/(\text{GaS})_n(001)$ superlattices
P5	FERHATI	Mounir	First-principles study on structural, elastic, thermoelectric and optoelectronic properties of binary compounds X-N (X= Al, B, Ga, In and Tl)
P6	HALIMA	BOUBEKEUR	Energy study of a vehicle-to-grid (V2G) system in a micro-grid
P7	Mohammed Amin	Zareb	Performance Analysis of P/Vdc Droop Control in MTDC Systems During Converter Outage
P8	KHELIFI	Elmabrouk	A Novel Approach to Enhance Ozone Generation Using RSM and WOA Algorithm
P9	Yassine	Bouroumeid	Analyse technico-économique d'un système hybride (photovoltaïque/turbine hydrocinétique)
P10	MEGAIZ	Mohammed Djawed	Détection des maladies des plantes avec apprentissage profond
P11	GHAITAOUI	Essama Ahmed	Experimental study of Gas Flow Dynamics in a Dielectric Barrier Discharge Ozonator for Water Purification Applications
P12	Rihab	belhabri	A Hybrid Energy Microgrid Energy Management System for Optimal Cost Efficiency and Storage Utilization
P13	BELABED	Meriem	Production of a High Frequency High Voltage Source for a DBD Ozone Generator
P14	KADA ZAIR	Ikram	Experimental Investigation of Electrostatic Sprayer Performance
P15	Ali-Dahmane	Mohamed	Improved Voltage Profile And Reduced Losses Using Optimum Capacitor Allocation By ETAP In Radial Power Distribution Networks
P16	Rania	Kadri	Evaluating TSR-Based MPPT Control Methods: A Study on Wind Speed Measurement and Estimation for Wind Turbines
P17	Ahmed Walid	SASSI	Optimal control of tram signaling in an urban traffic network
P18	Oussama	BOUDEBOUDA	Control of egg incubator system based on ANFIS like PID
P19	HOURIA	SADOUNI	The strategy of optimal economic distribution (ED) based on smart grid systems
P20	Mustafa	Louahedj	Improvement of aluminum recovery rate using inclined electromagnetic and electrostatic separators
P21	Abdelkader	Serhane	A NEW Design of Biosensors Using Electromagnetic Coupling of Band Stop Filter and CSRRs
P22	Abdelkader	Benammar	Tri bands Triangular Shape fractal Antenna for wireless applications
P23	Khalil Ibrahim	Lairedj	Automatic MRI-Based Brain Tumor Segmentation and Region Detection: Separating Tumor Regions Using Generalized Gaussian Mixture Model and expectation-Maximization Algorithm
P24	Badia	ERROUANE	Classification of Fruits and Fruit Combinations Using an Electronic Nose and Deep Learning Techniques