

4th International Conference on Technological Advances in Electrical Engineering ICTAEE'23

DATE	TIME	Presentations
MAY 23	8h00-9h00	Registrations at the conference location (Auditorium, Skikda University)
	9h00- 9h30	OPENING CEREMONY
	9h 30- 10h30	PLENARY LECTURE Presented by: Pr. G. CARBONE Theme: Design of Cable Driven Parallel Robots
	10h 30- 11h00	BREAK TIME
	11h00-12h00	PLENARY LECTURE Presented by: Pr. Belkacem Bouamama Theme: Digital Twin for Design of Resilient Green Hydrogen Hybrid
	12h00- 13h 15	LUNCH TIME

	13h30- 14h 15	PLENARY LECTURE Presented by : Pr. Soufi Youcef Theme: Towards the New Industry 5.0 Revolution		
MAY 23	TIME	PRESENTATIONS		
		ROOM A	ROOM B	ROOM C
	SESSION 1	TOPIC 1 CONTROL SYSTEM Chairs : Pr. Carbone Pr. S.Laadaci	TOPIC 2 Signal Chairs : Pr. R. Djemili Pr. K. Khelil	TOPIC 3 POWER SYSTEM Chairs : Pr. T. Bahi Pr. H.Habi
	14h15-14h30	Ahmed Hichem Zebboudj <i>Sliding Mode Observer and Controller Design for Stick-Slip Vibration Suppression in Rotary Drilling Systems</i>	Abderrahmane Marrok <i>Integrating post-quantum hybrid cryptography into VPN</i>	Salah Anis Krim <i>Investigation and Comparative Evaluation of the Performance Enhancement of PV Systems Based on Neuro-Fuzzy MPPT Controller</i>
	14h30-14h45	BENDIB Riad <i>Grey wolf optimizer algorithm (GWO) for the design of a supervisory fuzzy controller</i>	Chahrazad Rahmani <i>Monitoring the Driver's Drowsiness Level Using Transfer Learning Based on Deep Convolutional Neural Network</i>	Amira Kahlessenane <i>MPP tracking Controller-based T-S Fuzzy Model for photovoltaic systems</i>
	14h45-15h00	Grairia Mohamed Islam <i>Optimizing Autonomous Distributed Generation Inverters Performance using Model Predictive Control based Droop Control</i>	Walid LEBBOU <i>A Low Complexity Parametric DFT and DHT - Based OFDM Transceivers</i>	Faïçal Briber <i>Optimizing the Energy Usage of a Tramway Hybrid Power System with Fuel Cell, Battery, and Super Capacitor</i>

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MAY 23	15h00- 15h 15	BREAK TIME		
	TIME	PRESENTATIONS		
		ROOM A	ROOM B	ROOM C
	SESSION 2	TOPIC 1 CONTROL SYSTEM Chairs : Pr. G.Carbone Pr. Y.Kourd	TOPIC 2 Signal Chairs : Pr. R. Djemili Pr. K. Khelil	TOPIC 3 POWER SYSTEM Chairs : Pr. A.Chouder Pr. H. Habi
	15h15-15h30	Mawloud TELLAA <i>Design of Optimal PID Controller Based on Particle Swarm Algorithm for Vibrations Mitigation in Rotary Drilling Systems</i>	Nebili Radouane <i>Convolutional LSTM Network: A Machine Learning Approach for solar irradiance forecasting in the Region of Laghouat"</i>	Yehia Lalili <i>Optimal MPPT Control of a Photovoltaic System Under Non-uniform Irradiation Modelling Of A Wind Turbine With The Backlash Phenomenon</i>
	15h30-15h45	Abderahmane Ganouche <i>Mixed Sensitivity Control Design of Brushless Doubly Fed Induction</i>	Nada Bouchekout <i>Enhanced Secure Transmission of Medical Images through OFDM using Hyperchaotic systems</i>	SALHI Rabie <i>Quantitative Analysis of Electric Charge Distribution on Cap-Pin Insulator Using COMSOL Multiphysics</i>
	15h45-16h00	Imene DJELLOUL <i>Development of preventive maintenance strategy for fault diagnosis in industrial milling system</i>	Farouk Boumehrez <i>Forest monitoring using IoT technology</i>	Allele Selma <i>Optimized Control Strategy for Photovoltaic Panel System with Improved Efficiency and Stability under Varying Load Conditions</i>
	16h00-16h15	Yehia Lalili <i>A robust image encryption scheme based on new 4-D hyperchaotic system and elliptic curve</i>	Kheireddine Choutri <i>Forest Fire Detection Using UAVs Aerial Images</i>	ABABSIA Houria <i>Power Quality Improvement By Statcom in Power Grids</i>
	16h15-16h30	Sabrina Meddah	Mezioua Oussama	Bousnoubra Choayb

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MAY 23		<i>Modeling and interaction analysis of Axial-torsional vibrations in the drill string system</i>	<i>Finger Knuckle Patterns Based Person Recognition via Binarized Statistical Texture Features</i>	<i>Power quality improvement using unified power quality conditioner (UPQC)</i>
	16h30-16h45	Ismail HAMHAMI <i>Small Boat Navigation and Obstacle Avoidance using Sonar and Kalman Filtering: An Experimental Analysis</i>	Lokmene Melalkia <i>A deep learning Bidirectional long-short-term memory LSTM model for short-term wind speed forecasting</i>	Hakim Ait Said <i>Effect of Humidity on the Electric Discharge Characteristics in Electrostatic Precipitator</i>
	16h45-17h00	Pr. Belkacem Ould Bouamama <i>On Fault Detectability and isolability structural conditions</i>	Dr. Hadjer Saadi <i>Implementation of SON in the Algeria Telecom LTE Network for Radio Optimization</i>	Soulef Mahieddine <i>Li_ion Battery State of charge estimation</i>

MAY 24	8h30-9h30	PLENARY LECTURE Presented by: Pr. Chouder Aissa Theme: Monitoring, Fault Detection and Diagnosis of Grid Connected PV Systems		
	9h30-10h30	PLENARY LECTURE Presented by : Pr. Moussaoui Abdelouaheb Theme : Generative Learning Models, Transformers, and Self-Supervised Learning to Address Challenges of Data Scarcity/Semantics/Abundance in Deep Learning		
	10h30-11h00	BREAK TIME		
	TIME	PRESENTATIONS		
		ROOM A	ROOM B	ROOM C
	SESSION 1	TOPIC 1 CONTROL SYSTEM Pr. Moussaoui Pr. M. Sedraoui	TOPIC 2 SIGNAL Chairs: - Pr. T.Bouden - Dr. Djouablia	TOPIC 3 RENEWABLE ENERGY Chairs : - Pr. A. Medaoued - Pr. Y. Soufi
	11h00-11h15	Samah RIACHE <i>SMC for wheeled mobile manipulator with nonholonomic constraints</i>	Dheya Alhaq Ahmed Hamood Abdullah AL QUDAMI <i>New Windows for UFMC Technique in 5G Systems</i>	Rochdi Bouchebbat <i>Optimal sizing of a hybrid renewable energy configuration using HOMER tool</i>

MAY 24	11h15-11h30	Abdelouahab Chebbah <i>NARX Model Optimization for Predicting the Output Parameters of a Two-Shaft Gas Turbine</i>	Smail Labeled <i>Low-complexity and Efficient Massive MIMO Signal Detection Based on Richardson Iteration Method with Various Initialization Techniques</i>	Aboubakr Brahimi <i>Second Order Sliding Mode Control for DC-To-DC Bidirectional Converter Used in Hybrid PV/ESS System</i>
	11h30-11h45	Tarek Fonghour <i>Further Relaxed LMI-based Stability Conditions for Neural Networks with Time-Varying Delay</i>	Ali Bououden <i>Theoretical Quasi-TEM Analysis of Multilayer Planar structure with Partially Magnetized Ferrite: Application to Tunable Passive Phase Shifter</i>	Badis Lekouaghet <i>Identifying the optimal parameters of PEM fuel cells using the AISA optimization algorithm</i>
	11h45-12h00	Ibtihal Benharkou <i>A New Robust Structured H_{∞} PID With A Weighting Function Inspired From the Immune feedback mechanism</i>	Fares Bennaceur <i>Deep learning-based methods for radiation forecasting in a Short-term</i>	Moufida SAADI <i>Improved Prediction of MPPT in Photovoltaic Systems Using Hybrid Technique a Deep Learning Genetic Algorithm DL-GA</i>
	12h00-12h15	Mouad Boumediene <i>Design, simulation and control of a Self-Balancing Robot in a Gazebo environment and ROS 2 framework</i>	Hichem Kahia <i>An improved approach towards PEM fuel cell water management using artificial neural network</i>	Nadhir Mesbahi <i>Model Predictive Control of a Shunt Active Power Filter with Fixed Switching Frequency under Distorted and Unbalanced Grid Conditions</i>
	12h15- 13h15	LUNCH TIME		
	TIME	PRESENTATIONS		

MAY 24	13h15 14h00	PLENARY LECTURE Presented by : Dr. Belloula Abdelmalek Theme: LES BASES DE PROTOTYPAGE DES SYSTEMES EMBARQUES (DE L'IDÉE AU PRODUIT)		
		ROOM A	ROOM B	ROOM C
	SESSION 2	TOPIC 1 CONTROL SYSTEM 1 Pr. M. Sedraoui Pr. A. Belloula	TOPIC 2 SIGNAL Chairs: Pr. K . Khelil Pr. T.Bouden	TOPIC 3 Electronics & Power SYSTEM Chairs : Dr. S. Rahmouni Pr. D. Sayad
	14h00-14h15	Mohamed Rouamel <i>Event-triggered Control for Networked Control System Subject to Network-induced Delay and External Disturbance</i>	Slimane Djema <i>Firefly algorithm based visual odometry</i>	A.Mebarek <i>Advanced Method for Controlling a Four-Leg Shunt Active Power Filter of the TLSC Type</i>
	14h15-14h30	Chahinez Bellel <i>Unicycle Mobile Robot Control using Neural Model Predictive Controller</i>	Abdallah IKHLEF <i>Design of an Attitude Control System For a Telecommunication Satellite</i>	Nouredine Bounasla <i>Optimal Sensorless Backstepping Control of a Five-Phase PMSM Using Extended Kalman Filter</i>
	14h30-14h45	Nourreddine Nafir <i>Stability Analysis of Networked Control System under Network-Induced Delay and Actuator Faults</i>	Boukerche Ali <i>Shading diagnosis by current analysis in a Photovoltaic system</i>	Redouane Berber <i>Efficient 2D NZCC/MD Code for SAC-OCDMA Systems Using Direct Spectral/Spatial Dimension Detection Technique and Water Filling Optimization</i>

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MAY 24	14h45-15h00	Mohamed Ilyas Rahal <i>Modeling and Robust Fault Diagnosis for Hybrid Systems Using Hybrid Bond Graph</i>	Omar BOUGANDOURA <i>Pulsed Electric Field For Cancer Treatment</i>	A. Rezika Zedek <i>Investigation of the outcome of annealing temperature on structural and optical proprieties of titanium dioxide nanoparticles</i>
	15h00- 15h 15	BREAK TIME		
		ROOM A	ROOM B	ROOM C
	SESSION 3	TOPIC 1 CONTROL SYSTEM 3 Chairs :- Pr. S. Gherbi - Dr. S. Kourd	TOPIC 2 SIGNAL Chairs: Pr. H . Saadi Pr. T.Bouden	TOPIC 5 ELECTRONICS Chairs : Dr. Boukalkoul Dr. A.M. Chaoui
	15h15-15h30	Awatif Guendouzi <i>Robust Position and Attitude Tracking Control of Unmanned Quadrotor</i>	Chakib Nehnouh <i>Design of a novel congestion-aware mechanism for Network on Chip</i>	El-A. Mechhoud <i>Risk assessment using functional modeling (D-Higraph) applied on an industrial plant</i>
	15h30-15h45	Z. Achour <i>Comparative analysis of hybrid force/position control using different schemes for Robots in Contact with Dynamic Environments</i>	Yasser Haddadi <i>A Novel Bio-Inspired Optimization Algorithm for Medical Image Denoising Using Total Generalized Variation</i>	Seniguer Abderraouf <i>Illuminance Estimation Using Machine Learning Algorithm Approach for Daylight Harvesting Systems</i>
	16H00	CLOSING CEREMONY		

Poster Sessions

POSTER SESSION Pr. A. Medaoued Dr. A.Laifa Dr. T.Sebbagh Dr S.Lekchine Dr. F.Bouchareb Dr.L.Djouablia Pr. S. Gherbi

Date		CONTROL SYSTEM	PAPERS		
MAY 23	MORNING		Poster 1	Poster 2	Poster 3
			Fayçal Bourahala <i>Fuzzy H∞ controller design of Takagi-Sugeno systems with time-varying delay: Application to Continuous Stirred Tank Reactor</i>	Rahma Tarfa <i>Open Circuit Fault Diagnosis And Fault Tolerant Control For Photovoltaic System</i>	Fatiha Loucif <i>Design Of Optimal Backstepping Controller for A Robot Manipulator Using Slime Mould Algorithm</i>
			Poster 4	Poster 5	Poster 6
			Yassine Soukkou <i>Tuning functions based adaptive backstepping control for uncertain full state constrained strict-feedback nonlinear systems</i>	Belkacem Hedadi <i>Object detection using YOLOv8 model</i>	Amira Lakhdara <i>Modeling and Control of a wind System</i>
			Poster 7	Poster 8	Poster 9
			Toufik Touil <i>Analysis and Diagnostic of Control and Protection System of Gas Turbine</i>	Krikeb Mohammed <i>Control and Cleaning of Cumilative Fouling a Seawater Desalination Plant</i>	Bouramdane Abderraouf Forecasting global incline solar radiation through empirical models on Desert areas

POSTER SESSION Pr. A. Medaoued Dr. A.Laifa Dr. T.Sebbagh Dr S.Lekchine Dr. F.Bouchareb Dr.L.Djouablia Pr. S. Gherbi

DATE		Advanced Technology & Innovation	PAPERS			
MAY 23	MORNING		Poster 1	Poster 2	Poster 3	Poster 4
			Ahlem Kolli <i>Ab-initio investigation of structural, magneto-electronic and elastic properties of the new half Heusler alloy NbAgGe</i>	Hessainia Amara <i>Reduction of Group Delay Ripples of Chirped Fiber Grating with Linear Chirp for Dispersion Compensation Applications Using the Fault Tree and Bayesian Network</i>	Brahim Mellah <i>Facial Kinship Verification Using Siamese Neural Network</i>	Naceur Aounallah <i>A Modified Capon Algorithm Based on Cholesky Matrix Factorization for DOA Estimation Characteristics</i>
			Poster 5	Poster 6	Poster 7	Poster 8
			Manel Aouissi <i>Effects of FSS stop band on a Circle Microstrip Antenna for x-band Applications</i>	Forecasting global incline solar radiation through empirical models on Desert areas		

POSTER SESSION Pr. A. Medaoued Dr. Laifa Dr. T.Sebbagh Dr S.Lekchine Dr. F.Bouchareb Dr.Djouablia Pr. S. Gherbi

DATE		POWER SYSTEM	PAPERS			
MAY 23	EVENING		Poster 1	Poster 2	Poster 3	Poster 4
			Djedidi Imene <i>Integrated DG with Ecosystem Artificial Optimization (AEO) algorithm</i>	Djedidi Imene <i>Optimum Capacitors Allocation Via Moth Flame Optimization for power distribution</i>	Souheyla Benachour <i>Optimal size and location of distributed generations in distribution network using a novel optimization technique</i>	Bilel Ayachi <i>Modeling and Control of the Hybrid Renewable Energy System: PV/Battery</i>
			Poster 5	Poster 6	Poster 7	Poster 9
			Messaoud Zobeidi <i>Optimization of FACTS Devices site for Congestion Mitigation and enhancement voltage stability Using Sensitivity Factor</i>	Hamza TOUIOUI <i>MV Underground Cable Fault Detection Using Real-time Records</i>	Abderaouf Bahi <i>Deep Learning for Smart Grid Stability in Energy Transition</i>	Lekhchine Salima <i>Connection of a Photovoltaic System to the Energy Distribution Network</i>

POSTER SESSION Pr. A. Medaoued Dr. Laifa Dr. T.Sebbagh Dr S.Lekchine Dr. F.Bouchareb Dr.Djouablia Pr. S. Gherbi

Date		Advanced Technology & Comm	PAPERS		
May 24	MORNING		Poster 1	Poster 2	Poster 3
			Boualiane Aicha <i>Development of a model to simulate blood flow across both healthy and pathological aortic valves during the systolic phase</i>	Abderrahmane Herbadji <i>Fingerprint Liveness Detection using Mobile Net-SVM combination</i>	Ahmed Amine El Ouchdi <i>Effect of the Temperature and the Electric Field on the Electronic Drift velocity in GaInAsSb Material Using the Monte Carlo Method</i>
			Poster 4	Poster 5	Poster 6
			TAYEBI Abdelmalek <i>Contribution to the study of the behavior of Pb in an alkaline medium for multi-electrolyte systems</i>	Saleh Eddine Laouar <i>A Robust Light-weight CNN Model For road traffic sign classification</i>	Abdelhakim Dafeur <i>Optimal Placement of Multicast Capable Nodes in WDM Networks</i>
			Poster 7	Poster 8	Poster 9
			Noureddine Bouaziz <i>Verification of signatures online by the empirical modal decomposition method</i>	Benzaid Amel <i>Brain-Computer Interfaces: Main Concepts and Front-End EEG Signal Analysis</i>	Noureddine Boughaba <i>Design and analysis of Rotman lens- beamforming for 5G applications</i>

POSTER SESSION Pr. A. Medaoued Dr. A.Laifa Dr. T.Sebbagh Dr S.Lekchine Dr. F.Bouchareb Dr.L.Djouablia Pr. S. Gherbi

Date		Papers			
May 24	EVENING	POWER SYSTEM	Poster 1	Poster 2	Poster 3
			Kachaou Youcef <i>Evaluating Effect of Distributed Photovoltaic Generation Placement on Power System Losses Minimization in Distribution Network</i>	Mohand Akli Ouakli <i>Reactive Power Planning with Distribution Production Intermittence in Algerian Network</i>	Messaoud Zobeidi <i>Optimization of FACTS Devices site for Congestion Mitigation and enhancement voltage stability Using Sensitivity Factor</i>
			Poster 4	Poster 5	Poster 6
			Rahmouna El Bouslemti <i>Design and Realization of Power Divider Using Microstrip Stubs Line</i>	F. Zraidi <i>The adaptive speed controller for a Dual Star Induction Machine (DSIM) based by the wind turbine MRAC and FO-MRAC technique</i>	Henchiri Abdelhamid <i>Solar System based of Cuckoo search MPPT Algorithm</i>
			Poster 7	Poster 8	Poster 9
			Nabil Mezhoud <i>Solving Multi-objective Optimal Power Flow and Emission Index using Nature-inspired Algorithm</i>	Amel Kasri <i>Effectiveness Analysis of Nonlinear Model Predictive Control based Space Vector Modulation for PMSM Driven Electric Vehicle</i>	Fetoui Houda <i>Modeling and simulation of the MRV variable reluctance motor</i>

POSTER SESSION Pr. A. Medaoued Dr. A.Laifa Dr. T.Sebbagh Dr S.Lekchine Dr. F.Bouchareb Dr.L.Djouablia Pr. S. Gherbi

DATE		PAPERS			
May 24	EVENING	CONTROL SYSTEM	Poster 1	Poster 2	Poster 3
			Yassine DAAMACHE <i>Cooperative Adaptive Cruise Control of a convoy type vehicles on TORCS</i>	Mohammed Chebout <i>Detection and Evaluation of Embedded Fatigue Cracks in Railhead Benchmark Problem</i>	Ahmed ZAIDI <i>Modeling and analysis of the cutting force during turning of the polymer PA66 using the Taguchi method and analysis of variance (ANOVA</i>
			Poster 4	Poster 5	Poster 6
			Bilel Bouchaour <i>Sliding Mode Control of a Two-Link Robot Arm</i>	Mouad Boumediene <i>Design, construction and control of a Self-Balancing robot including a new frame assembly approach and a custom PCB</i>	Ali Amrane <i>Efficient Control of an Autonomous Electric Wheelchair with Grey Wolf Optimization-Based PID Controller</i>
			Poster 7	Poster 8	Poster 9