

## LSEI-Day'23

### Laboratory of Electrical and Industrial Systems Day 2023

30 November 2023 USTHB, Algiers, Algeria

Startup Building ex Maison de la Science			
Program at Glance			
8:00-8:30	Registration		
8:30-9:30	OPENING CEREMONY & WELCOME WORDS		
9:30- 10:30	Plenary by: Dr. S. Ziani		
	Pr. M. Menaâ; Dr. N. Kouba		
	<i>Title: Verdissement de l'énergie et augmentation de la disponibilité des actifs dans le secteur ferroviaire</i>		
10:30-11:00	Coffee Break		
11:00-12:00	Poster Session		
	Pr. A. Nait seghir; Dr. N. Chabane; Dr. A. Laissaoui		
	ID:1	<i>Title: Power System Stability Analysis in Presence of Renewable Energies and FACTS Devices</i>	BRIK Amel
	ID: 5	<i>Title: A Review in Geometric Optimization of Propellers for Electric Propulsion</i>	YAMNAINE Abdelmouncef
	ID: 6	<i>Title: Implementing Architecture of CORDIC Iterations and Parallel in FPGA for Sine and Cosine Computation</i>	HAMOUDA Salim
	ID:11	<i>Title: Advanced Control and Integration of Multi-Microgrids with Energy Storage and HVDC transmission lines</i>	Aimad BOUDOUCHE
	ID:12	<i>Title: Optimal Preventive Maintenance for Series-Parallel Multi State System Using Differential Evolution Algorithm</i>	BELKACEM Kamel
	ID:14	<i>Title: Model for Predicting and Optimizing electrical energy consumption in Smart Home</i>	YOUNSI Sarah
	ID:16	<i>Title: Electric Propulsion System, Example Ships</i>	SAHNOUNE Mohammed Aymen
	ID:17	<i>Title: Modelling Method and optimal design of a 7-phase Doubly Salient Permanent Magnet Motor For Low Speed Application</i>	ABBAD Yacine
ID:18	<i>Title: Study of polyphase machine power supply based on scott transformer</i>	BATOUCHE Mohammed	

	ID:19	<b>Title:</b> A Polyphase Power Transformer Utilizing the Scott Connection for Three-Phase Input	KIBBOU Nazih
	ID:20	<b>Title:</b> Design and implementation of an energy management system based on cloud computing in a smart grid	BOUCETTA Lakhdar Nadjib
<b>12:00-13:30</b>	<b>Lunch</b>		
	<b>Oral Session</b>		
	<b>Dr. M.L. Amrani ; Dr. N. Achaibou, Dr. S. Mezoued</b>		
<b>13:30-14:30</b>	ID: 2	<b>Title:</b> 3D FEM electromagnetic study for an induction heater with axial PMs inductors	HEBOUCHE Sarah
	ID:3	<b>Title:</b> Implementation of Global Control and Energy Management in a Hybrid AC DC Microgrid for Residential Areas	DRID Mohamed
	ID:8	<b>Title:</b> Sensorless Control of an Electric Powertrain Using Optimized Fuzzy MRAS.	SEBBOUA Zakaria
	ID:9	<b>Title:</b> Detection of false data injection attack in smart power grid using supervised learning models	GASMI Younes
	<b>Poster Session</b>		
	<b>Pr. A.A. Ladjici; Dr. D. Khelil</b>		
<b>14:30-15:30</b>	ID:23	<b>Title:</b> Fault Diagnosis in the Photovoltaic System Using Artificial Intelligence Methods	SAADOUNI Amine
	ID:24	<b>Title:</b> Optimal sizing of PV/DG water pumping system with hybrid storage using SOA	NEMOUCHI Wissem
	ID:25	<b>Title:</b> Brushless Doubly Fed induction Machine Based on Slot MMF Harmonics	CHERFAOUI Manel
	ID:26	<b>Title:</b> Optimal Power Management and Control of Smart Interconnected Multi-Nanogrids	HADJAZ Sabrina
	ID:27	<b>Title:</b> ANALYSIS STUDY OF LIGHTNING ROD INTERCEPTION USING NEURAL NETWORKS	MEDJDOUB Abderaouf
	ID:28	<b>Title:</b> Fault Detection and Diagnosis in Wind Generators	AMMARI Zineb
	ID:30	<b>Title:</b> 2D and 3D finite element modeling and analysis of planar permanent magnet eddy current brake	DAOUDI Bouchra Hania
	ID:31	<b>Title:</b> Real-time Identification and Control of Doubly Fed Induction Machines	KEDJADJA Soumia
	ID:32	<b>Title:</b> Modeling and simulation of an horizontal axis wind turbine	OUCHEFOUN Zoulikha
	ID:33	<b>Title:</b> Control of Brushless Doubly-Fed Generator using Lightweight Neuro-fuzzy regulators	TOUAMI Sounia
ID:34	<b>Title:</b> Fuzzy logic Type 2 In Photovoltaic System	BELARBI Saida	
<b>15:30-16:00</b>	<b>Coffee Break</b>		
	<b>Oral Session</b>		
	<b>Pr. Yazid. K; Dr. Abdi. A</b>		

<b>16:00-17:00</b>	ID:13	<b>Title:</b> <i>Permanent Magnet Number Impact on Performance of Optimal Design of Low-Speed Vernier Toothed Doubly Salient Permanent Magnet Machine</i>	KENDJOUH Tarek
	ID:15	<b>Title:</b> <i>Enhancing distribution network resilience with DGs and line switch control with PSO and GA.</i>	ABDALLAH Imadeddine
	ID:21	<b>Title:</b> <i>Remaining useful life prediction based on improved exponential HI and adaptive neuro-fuzzy inference system ANFIS</i>	MEDJOUJ Islam
	ID:22	<b>Title:</b> <i>Real-time virtual instrumentation of NI MyRio and LabVIEW based PV panel characteristics</i>	KASSA BAGHDOUCHE Kamel
<b>17:00</b>	<b>Closing Ceremony</b>		

**08:00-17h00      Exhibition booths by: Dr. Saliha Arezki**