

Sunday 13 October 2024			
8h30 - 9h30	Registration		
9h30 - 10h00	Opening Ceremony		
10h00 - 11h00	Plenary 1	Dr Hai Cahn VU & Dr Nassim BOUDAUD UTC Compiègne (France)	Robust predictive maintenance models for Future Industry
11h00 - 11h30	Coffee Break		
Workshop 1: Industrial Predictive Maintenance and PHM			
11h30 - 13h00	Oral Session 11	Jury OS11	
11h30 - 12h00	Presentation 111	Chakhrit ammar & al	Optimizing Risk Assessment in Industrial Systems: A Decision-Support Framework Using Fuzzy and Grey Relational Analysis
12h00 - 12h30	Presentation 112	Mehar zohra & al	Modeling and Analysis of a Machining Robot Cell with PN
12h30 - 13h00	Presentation 113	Bachir Bouiadjra bachir & al	Analysis of the Effects of Crack Location on the Fracture Behavior of Mechanically Stressed Pipelines Repaired with Composite Patches
Workshop 2: Production of Goods and Services			
11h30 - 13h00	Oral Session 12	Jury OS12	
11h30 - 12h00	Presentation 121	Debbal amel Nihel & al	Single Product Capacitated Lot Sizing combined with the Single Row Facility Layout Problem
12h00 - 12h30	Presentation 122	Khadidja yachba & al	Towards a Bio-Inspired Approach for the Optimization of Product Distribution in a Transport Company
12h30 - 13h00	Presentation 123	Benfekir abderrahim & al	A Discrete Event Simulation Approach for Modeling and Simulation of Hybrid Renewable Energy System
Workshop 3: Production and Storage of Electrical Energy			
11h30 - 13h00	Oral Session 13	Jury OS13	
11h30 - 12h00	Presentation 131	Younes benazzouz & al	A Python-Based Framework for Synthetic Four-Vertex Planar Coils Shape Dataset generation
12h00 - 12h30	Presentation 132	Belhabri rihab & al	Advanced Optimization Strategies for Efficient Electric Vehicle Charging Management
12h30 - 13h00	Presentation 133	Mimouni chahinez	Treatment of shredded electronic cards by electrostatic drum separator

Workshop 4: Thermal Performance Optimization of Electrical and Electronic Systems			
11h30 - 13h00	Oral Session 14	Jury OS14	
11h30 - 12h00	Presentation 141	Djellid ikram & al	Comparative numerical analysis of various geometric configurations of a two-dimensional heat sink.
12h00 - 12h30	Presentation 142	Azzi said & al	Comparison study of copper oxide nanofluid and borak 22 oil used for cooling an immersed coil
12h30 - 13h00	Presentation 143	Derraz hanaa & al	Impact of Geometric Design on Thermal Efficiency of Heat Sinks
13h00 - 14h00	Lunch Break		
14h00 - 15h00	Industrial and Partner Exposition		
14h00 - 15h00	Poster Session 11	Jury PS11	
		Taleb Bendiab radia & al	Analysis of Maintenance and Optimization Strategies for CENTAC Compressors
		Nassima aissani & al	Augmented reality and smart approach for remote maintenance
		Aouimer yamina & al	Operational Safety-Based Maintenance Study for the DELTA X Welding Machine at National Electronic Industries Company, Sidi Bel Abbès-ALGERIA
		Khellafi ikram	Study of the behavior of a non-Newtonian fluid in a hydrodynamic plain bearing with textured surface
		Labair hakima & al	Analysis of the operational sustainability of a production line at the CHLEF cement plant
		Rahmouni djemaa & al	Basic Experiments on Predictive Maintenance of Naval Propulsion System using Small-Scale Machine Learning
		Zouairi saim	Data Analysis for Safety Management
		Ghanem nacereddine & al	Degradation models for reliability and remaining useful life estimation: application on crack propagation
		Belabed youssouf & al	Development of Computerized Maintenance Management System, Case Study: hall of technology
		Ouali abdelmoumin & al	Fault Diagnosis of Inter Turn Short Circuit for Permanent Magnet Synchronous Machine Using Fast Fourier Transform (FFT)

		Houari habiba & al	Machine Learning Models for Predictive Maintenance
		Benefissa noureddine & al	MECHANICAL BEHAVIOUR OF HYBRID COMPOSITES UNDER UNIDIRECTIONAL FORCE: INFLUENCE OF FIBER ORIENTATION, HYBRID STRUCTURE
		Benkhettou abdelkader & al	OPTIMIZATION OF COMPOSITE LAMINATE STRUCTURES FOR MINIMIZE THE WEIGHT AND DEFLECTION
		Benaicha abdelkader & al	Optimization of Composite Patch Repair for Cracked Aluminum Plates
		Nada El Rihane mechehat & al	Optimization of Cutting Parameters for Turning XC38 Steel Using the Taguchi Method
		Touati Benali abdelaziz & al	Optimization of the surface condition of the bonding zone of a bonded assembly
		Motrani asmaa & al	Predictive Maintenance: A Machine Learning Approach to Remaining Useful Life (RUL) Estimation of Industrial Machines
		Naoum halima & al	Simulation of LSP Processing in 2024-T351 Aluminum Alloy
	Poster Session 12	<b>Jury PS12</b>	
		Metahri dhiyaeddine & al	Optimization of Spare Parts Inventory Management A Case Study of a Cosmetics Manufacturing Plant
		Nadia hoggas & al	Implementing Quality 4.0 in Quality Problem-Solving Approaches: Challenges and Opportunities
	Poster Session 13	<b>Jury PS13</b>	
		Saadiya benatmane	Structural, electronic, magnetic and mechanical properties of N-based quaternary Heusler compounds
	Poster Session 14	<b>Jury PS14</b>	
		Charifi mohamed & al	Control of Solidification front Evolution of a Pure Material for One Dimensional Problem
		Bouhamri noureddine & al	Comparative Numerical Study of a Co-Current Heat Exchanger
		Boualem ikram & al	Enhancing Heat Transfer in Backward-Facing Step Using Strategic Fin Placement and Forced Convection
		Mechken karima-Amel & al	Ferrofluids: Chemical synthesis methods, properties, applications & prospects

		Khelif fatima-Zohra & al	Heated Obstacle Effect on Natural Convection in Nanofluid full Porous Cavity using Buongiorno's model
		Ben Yahia mohammed & al	Investigating the Effect of Flexible Fins on Natural Convection In a Newtonian Fluid
		Karim amrani & al	Numerical investigation of the effect of including three fins inside a channel on thermo hydrodynamic behavior of nanofluid
		Medjeded afafe & al	Numerical Study of Natural Convection of Newtonian Fluid within a Square Cavity using a Flexible fin
		Miloud belmahdi & al	Turbulent flow Structure over successive two-dimensional hill models
Monday 14 October 2024			
Workshop 1: Industrial Predictive Maintenance and PHM			
8h30 - 10h00	Oral Session 31	Jury OS31	
8h30 - 9h00	Presentation 311	Tayeb aoufi & al	A bibliometric analysis and systematic literature review of Predictive Maintenance in the Industry 4.0 era
9h00 - 9h30	Presentation 312	Sadji fares & al	Contribution to bearing diagnosis using Ensemble Learning techniques
9h30 - 10h00	Presentation 313	Kacemi nadjib & al	Enhanced Composite Patch Repair for Cracked Plates Through Genetic Algorithm Optimization
Workshop 2: Production of Goods and Services			
8h30 - 10h00	Oral Session 32	Jury OS32	
8h30 - 9h00	Presentation 321	Bouhelassa yassine & al	A Comparative Performance Study of AHP and Fuzzy AHP Methods for Optimizing Drug assignment in Automated Drug Dispensing Systems
9h00 - 9h30	Presentation 322	Omar bahmid & al	Metaheuristic Optimization Techniques for control onAutomated Storage and Retrieval Systems: A Comprehensive Survey
9h30 - 10h00	Presentation 323	Mechaacha abdelkader & al	NSGA-II with Q-learning for the integrated process planning and scheduling problem with reconfigurable machines
Workshop 3: Production and Storage of Electrical Energy			
8h30 - 10h00	Oral Session 33	Jury OS33	
8h30 - 9h00	Presentation 331	Boussadia halima & al	αβ filter for Spacecraft Attitude Estimation

9h00 - 9h30	Presentation 332	Nedjoua fidouh & al	Comparative Study of a Thermal and Electric Motor
9h30 - 10h00	Presentation 333	Mohammed Cherif ramdani & al	Numerical study of CsFAMA Perovskite based Solar Cells through SCAPS-1D Device Simulation
<b>Workshop 4: Thermal Performance Optimization of Electrical and Electronic Systems</b>			
<b>8h30 - 10h00</b>	<b>Oral Session 34</b>	<b>Jury OS34</b>	
8h30 - 9h00	Presentation 341	Ait Taleb belkacem & al	Influence of a Uniform Horizontal Magnetic Field in a Square Cavity with Heat Sources and Hybrid Nanofluid
9h00 - 9h30	Presentation 342	Belhout cherif & al	The effect of magnetic field on thermo hydrodynamic behavior of nanofluid inside a channel
9h30 - 10h00	Presentation 343	Benabderrahmane amina & al	Numerical Study of a Lithium-Ion Battery Cooling Using Nanofluids
<b>10h00 - 10h30</b>	<b>Coffee Break</b>		
10h30 - 11h30	Plenary 2	Pr. Lyes BENYOUCEF Univ. Aix Marseille (France)	Sustainable Multi-objective Process Plan Generation in Reconfigurable Manufacturing Environment: Evolutionary-based Approaches
11h30 - 12h00	<b>Closing Ceremony</b>		

