The 8th International Conference on Advances in Mechanical Engineering and Mechanics

ICAMEM 2024

From Fundamentals & Laboratory to Industrial Applications

ICAMEM 2024

June 28-30, 2024
Sousse, Tunisia

Conference Scope

The **I**nternational **C**onference on **A**dvances in **M**echanical **E**ngineering and **M**echanics (**ICAMEM2024**) aims to attract the interest of specialists, academicians, and researchers from the international community working in research areas related to Mechanical Engineering and Mechanics. Contributions to **ICAMEM2024** also span from intriguing research with recent industrial applications to advanced educational resources, dissemination of technology, and best practices. The conference will be organized in several topics. **ICAMEM2024** also encourages and rewards excellence in research by young students through specific poster sessions.

General Chair
Prof. Riadh ELLEUCH
(ENI Sfax, LASEM, Tunisia)

Materials
- Metals, polymers, ceramics
- Bio-materials and Eco-materials
- Smart materials
- Composite materials
- Surfaces and thin films
- Materials and corrosion
- Fatigue and damage
- Tribology
- Non-destructive testing
- Crystallography and diffraction
- Machine learning & deep learning

Design & Manufacturing
- Theory of product design
- Modeling and optimization of manufacturing systems
- Inspection and metrology
- Integrated design and PLM
- Rapid prototyping tooling
- Reliability of industrial systems
- Additive manufacturing and 3D printing technologies
- Joining and assembly
- Forming processes

Applied Mechanics
- Computational methods in mechanics
- Computational modeling of multi-scale / multi-physics
- Processes in materials
- Fracture and damage mechanics
- Contact mechanics
- Stability of structures
- Mechanics of infrastructure systems
- Biomechanics
- Machine learning & deep learning

Dynamics of Systems
- System dynamics and vibro-acoustics
- Products sound quality and noise control
- Noise and vibration
- Measurement techniques
- Control theory and applications
- Damage identification and
- Robotics
- MEMS and-NEMS technology
- Energy harvesting
- Machine learning & deep learning
- 3D printed systems dynamics

Fluid Mechanics
- Multiphase flow
- Fluid rheology
- Computational fluid dynamics
- Experimental fluid dynamics
- Microfluidic applications
- Hydrodynamics
- Fluid-structure interactions

Industrial Applications & Technology Transfer
- Automation of production systems
- Creation and development of assembly systems
- Improvement of working conditions

Thermal Sciences & Renewable Energy
- Applied thermodynamics
- Computational heat and mass transfer
- Micro and nano heat transfer
- Combustion and reactive flows
- Solar heating and wind energy
- Renewable energy

Deadline extension:
Full paper submission: 04/30/2024
Acceptance notification: 05/15/2024
Financial contributions will be provided to the Tunisian Scientific Society (TSS).

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