



13th Conference on Mechanical Engineering

CME2022

Bordj El-Bahri, Algiers, ALGERIA

March 15-16, 2022

Call for paper

Authors are invited to submit their full papers. Clearly stating the objectives, results and conclusions of the work to be discussed in the presentation. The official template is available at the conference website.

The 13th Conference on Mechanical Engineering program will include invited plenary lectures, oral and poster presentations.

All contributions have to be submitted electronically through the conference portal.

Topics

Structural Mechanics:

Shock, Impact and Effects of Explosions
Experimental Ballistics
Vibrations, Acoustics and Noise Control
Diagnostics and Maintenance
Safety Engineering and Risk Analysis
NDE, Structural Health Monitoring and Prognosis
Robotics, Mechatronics and Mobile Platforms
Automotive Engineering, Transportation Systems
Multibody System Dynamics
Production Planning, Scheduling and Technology
Construction and Civil Engineering

Materials Engineering:

Composite and Advanced Materials
Material Characterization and Testing
Dynamic Behaviour of Materials and Terminal Ballistics
Modelling and Numerical Simulation
Powder Metallurgy, Forming and Processing
Fatigue and Fracture Mechanics
Surface Engineering, Coatings and Tribology
Multi-Scale Approaches

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Fluid Mechanics and Energetics:

Thermodynamics, Combustion and Heat/Mass transfer
Fluid-Structure Interaction, Aero-acoustics and Flow Control
Transition, Turbulence and Instabilities
Rheology and Complex Fluids
Aerospace and UAV Technologies
Renewable Energy
Numerical Methods and Optimization in Fluid Dynamics
Power and Propulsion
Supersonic Flows and Shock Waves Interactions
Hydrodynamic and Multi-Phase Flows

Mechanical Design and Manufacturing:

Design Process and Eco-Design
Optimal Design and Multidisciplinary Optimization
Biomechanics and Design of Medical Devices
Reverse Engineering
Additive Manufacturing and Rapid Prototyping
Advanced Manufacturing and Sheet Metal Forming
Numerical Methods in CAD/CAE/CAM
Metrology and Quality Control
Product Management, Reliability and Life Cycle Cost

Important Dates

Paper submission deadline: **Dec 15, 2021**

Notification of acceptance/rejection: **Jan 30, 2022**

Final paper submission deadline: **Feb 15, 2022**

Final acceptance decision: **March 1, 2022**