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Call For Papers

1st National Conference on Mechatronic Engineering (NCME'2025) is a hybrid peer-reviewed conference dedicated to exploring the integration of artificial intelligence (AI) into mechatronics engineering. The event will take place in Boumerdes, Algeria, during **12th and 13th October 2025** and aims to serve as a premier platform for academics, researchers, and industry professionals to share their latest innovations, research findings, and practical applications in the field. NCME'2025 will feature keynote speeches by leading experts, technical sessions including oral and poster presentations, interactive workshop, and networking opportunities. Attendees will have the chance to discuss emerging trends, challenges, and the future potential of AI in optimizing mechatronics systems. Join us at NCME'2025 to contribute to advancing AI-driven solutions in mechatronics.

Important Dates

Full Paper Submission Deadline: **03rd August, 2025**

Acceptance Notification: **15th September, 2025**

Conference Date: **12-13th October 2025**

ORGANIZERS AND PARTNERS



Conference Topics

- **Advanced Technologies for Prognostics and Health Management**
 - Fault Diagnosis and Prognosis in Industrial Systems
 - Advances in Computer Vision and Image Processing
 - Modern Approaches to Signal Processing and Analysis
 - Applied AI Techniques in Health Monitoring
- **AI-Assistance for Mechanical Systems: Smart structures, Fluids, and defect Materials**
 - Applied AI for Smart Structures
 - AI-Application for smart fluids
 - AI-Assistance for defect materials Detection
- **Autonomous and Real-Time Systems**
 - Autonomous Mobile Robots and Vehicle Applications
 - AI and Optimization in Autonomous Systems
 - Design, Safety, and Sustainability in Autonomous and real-time Systems
 - Sensors and actuators in autonomous systems
 - Energy efficiency and sustainability in autonomous systems
- **Embedded AI and Information Technology in Mechatronics**
 - Embedded Machine Learning and AI for Mechatronic Systems
 - IoT, Edge Computing, and Real-Time Data Analysis
 - Data Communication, Networking, and Cloud Computing
 - Cybersecurity and IT Solutions for Mechatronic Systems
 - Real-Time and Edge Computing in Mechatronics
- **Power and Renewable Energy in Mechatronics Applications**
 - A Renewable Energy in Mechatronic Systems
 - Energy Conversion, Storage, and Optimization in Mechatronic Systems
 - Smart Grids and Energy Management in Industrial Automation
 - Energy-Efficient Mechatronics and Green Technologies
 - Electric and Hybrid Vehicle Energy Efficiency

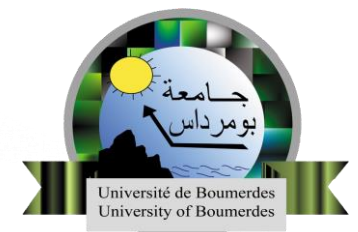
Participation fees

	On-site	On-line
Students	5000 DA	3500 DA
Academic	7000 DA	4500 DA
Industrials	10000 DA	6500 DA

Fee of Additional paper 50%

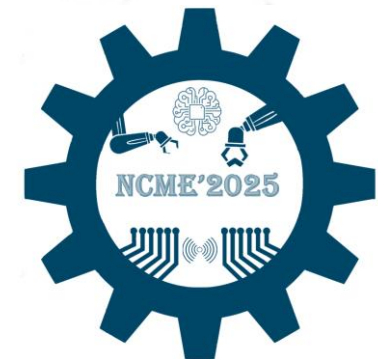
University of Boumerdes, CCP: CC 3556 96 Clé 21

RIP: 007 99999 0000355696 21



1st National Conference on Mechatronic Engineering NCME'2025

12th & 13th October 2025



Boumerdes - Algeria

Conference Organizing Committee

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Mr. Ali DAMOU	UMBB	Member

Paper Submission

Authors are invited to submit full-length papers (6 pages max) written in English, and formatted using the IEEE template: (https://www.ieee.org/conferences_events/conferences/publishing/templates.html).

The papers should be submitted electronically in PDF format at:

<https://ncme-ft.univ-boumerdes.dz/>

Publication

Presented papers will be published in the Abstracts E-book of the Conference. Those communications considered to have enough quality can be further considered for publication in Journals. The entire list of Special Issue journals will be announced soon.

Plenary sessions

Plenary 1: ‘Intelligent AI-Driven Diagnosis for Power Electronics and Machine Drives in Electric Vehicle’;

Dr.Khaled LAADJAL (University of Beira Interior Covilhã, Portugal)

Plenary 2: ‘Data sources for PHM’;

Dr.Moncef SOUALHI (University of Franche Comté, Besançon, France)

Workshop

‘Prognostics in Practice: A Hands-On Python Workshop’;

Dr.Khaled BENAGGOUNE (Data Engineer in Advanced Maintenance Analytics (AMA) team, Alstom, France)

Scientific Committee

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