



# National Conference on Automation, Robotics, Artificial Intelligence, and Electrical Engineering NCARAI2E'26



The Laboratory of Applied Automatic (LAA) is organizing the National Conference on Automation, Robotics, Artificial Intelligence and Electrical Engineering (NCARAI2E 2026), which will take place at the Faculty of Hydrocarbons and Chemistry (FHC), M'Hamed Bougara University of Boumerdes (UMBB), Algeria, on **October 14, 2026.**



## CALL FOR PAPERS

The conference aims to bring together researchers, academics, students, and industry professionals to present and discuss recent advances in automation, robotics, artificial intelligence, and electrical engineering. It provides a platform for sharing innovative ideas, research results, and practical experiences in intelligent and advanced engineering systems.

### Topics

Authors are solicited to contribute to the conference by submitting articles that illustrate research results, projects, survey works and industrial experiences that describe significant advances in, but are not limited to, the following areas:

- Automation and Control Systems
- Robotics
- Electrical Engineering

### Paper Submission

Authors are invited to submit original abstracts written in English. Scan QR code to submit your abstract.



### Honorary General Chairs

**Pr. ABDELBAKI Nouredine**, Rector of University of Boumerdes  
**Pr. HAMADA Boudjemaa**, Dean of the FHC

### General Chairs

**Pr. ACHELI Dalila**  
**Dr. LACHEKHAB Fadhila**  
**Dr. KHEBLI Abdelmalek**

### Important Dates

- **Submission Deadline**  
September 15, 2026
- **Notification of Acceptance**  
October 08, 2026
- **Camera-Ready**  
October 14, 2026

### Registration Fees

On-site Attendance	
Standard	6000
Student	4000
Industrial	10000
Online Attendance	
Standard	4000
Student	2500
Industrial	6000



الجمهورية الجزائرية الديمقراطية الشعبية  
People's Democratic Republic of Algeria  
جامعة محمد بوقرة - بومرداس  
University M'hamed Bougara of Boumerdes  
كلية المحروقات والكيمياء  
Faculty of Hydrocarbon and chemistry



مخبر البحث التحكم الآلي التطبيقي  
Laboratory of Applied Automatic



## National Conference on Automation, Robotic, Artificial Intelligence, and Electrical Engineering

NCARAI2E'26



### I. About NCARAI2E'26

The laboratory of applied automatic (LAA) is organizing the National Conference on Automation, Robotics Artificial Intelligence and Electrical Engineering **NCARAI2E'26**, which will be held at the faculty of hydrocarbons & chemistry, University M'Hamed Bougara of Boumerdes, Algeria, on October 14, 2026.

The conference is open for researchers, academics and industry practitioners interested in the latest scientific and technological advances occurring in different fields of automation and robotics and artificial intelligence (AI). **NCARAI2E'26** constitutes a leading venue for students, researchers, academics and industrials to share their new ideas, original research findings and practical experiences across all control engineering disciplines.

### II. Topics

Authors are solicited to contribute to the conference by submitting abstracts that illustrate research results, projects, survey works and industrial experiences that describe significant advances in, but are not limited to, the following areas:

#### II.1. Automation & Control Systems

- Intelligent and learning-based control;
- Distributed and networked control systems;
- Adaptive and robust control;

- Nonlinear and optimal control;
- Model predictive control (MPC);
- Fault detection, diagnosis, and tolerant control;
- SCADA and PLC systems.

## **II.2. Robotics**

- Robot modeling, dynamics, and kinematics;
- Mobile and autonomous robots;
- Industrial and collaborative robots (cobots);
- Robot perception and sensor fusion;
- Motion planning and control;
- Human-robot interaction;
- Multi-robot systems and swarm robotics;
- Machine learning and deep learning methods;
- Reinforcement learning for control and robotics;
- Computer vision and image processing;
- Intelligent decision-making systems;
- AI for real-time and embedded systems;
- Hybrid AI-control approaches.

## **II.3. Electrical Engineering Systems**

- Power systems analysis and control;
- Smart grids and energy management systems;
- Renewable energy integration;
- Power electronics and drives;
- Electrical machines and actuators;
- High-voltage engineering;
- Energy storage systems;
- Embedded Systems & Industrial Applications;
- Embedded and real-time systems;
- Industrial automation and Industry 4.0;
- Signal Processing & Instrumentation;
- Sensors and measurement systems;
- Biomedical signal processing;
- Fault monitoring and condition assessment;
- Data acquisition systems;
- Autonomous systems and intelligent transportation;
- AI in power and energy systems;
- Robotics in medical and service applications;
- Security and safety of intelligent systems.

### III. Conference location

The conference will be held in the faculty of hydrocarbons & chemistry (FHC), University M'hamed Bougara located in Boumerdes, Algeria. This pioneering engineering university is located in a lively Mediterranean city. FHC is one of the oldest technical faculties for the training of highly-qualified academics in ALGERIA. Its know-how covers teaching and research activities in the fields of hydrocarbons & chemistry.

### IV. Paper Submission

Submission is managed through the link bellow:

<https://forms.gle/ibpdBZBXKobD6xHw8>

Authors are invited to submit abstracts written in English. Acceptance will be based on quality, relevance, originality, and presentation.

All papers submitted to NCARAI2E'26 conference must be previously unpublished and may not be considered for publication elsewhere.

For more information contact us at: NCARAI2E@univ-boumerdes.dz

### V. Importants Dates

Submission Deadline:	Notification of Acceptance:	Camera Ready:	Conference Date:
September 15, 2026	October 08, 2026	October 10, 2026	October 14, 2026

### VI. Registration Fees

The registration fees must be paid via CCP:

Université de BOUMERDES  
CCP : 3556 96 Clé 07  
RIP : 00835001135000023564

On-site Attendance	
Standard Registration	6000 DA
Student	4000 DA
Industrial	10000 DA

On-line Attendance	
Standard Registration	4000 DA
Student	2500 DA
Industrial	6000 DA

## VII. Committees

### VII.1. Honorary General Chairs

Pr. ABDELBAKI Nouredine, Rector of Univ. of Boumerdes, Algeria

Pr. HAMADA Boudjmaa, Dean of the Faculty of hydrocarbons & chemistry, Univ. of Boumerdes, Algeria

### VII.2. Conference General Chairs

Pr. ACHELI Dalila, Univ. of Boumerdes, Algeria

Dr. LACHEKHAB Fadhila, Univ. Boumerdes, Algeria

Dr. KHEBLI abdelmalek, Univ. Boumerdes, Algeria

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Pr. HABBI Hacem, Univ. Boumerdes, Algeria

Pr. KESRAOUI Mohammed, Univ. Boumerdes, Algeria

Pr. MERAIHI Yassine, Univ. Boumerdes, Algeria

Pr. KHELLASSI Madjid, Univ. Boumerdes, Algeria

### VII.4. Key note speakers

Pr. CHETAIBI Taha Univ. Blida, Algeria

Pr. HEGAZY Rezk, Prince Sattam Bin Abdulaziz University, Saudi Arabia

Pr. BENTALEB Abdelhak Univ. of Concordia, Canada

### VII.5. Organizing Committee

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Dr. MENDIL Chafiaa, Univ. Boumerdes, Algeria

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Dr. KICHOU Soufiane, Czech Technical University, Prague  
Pr. KARA Kamel, Univ. Blida , Algeria

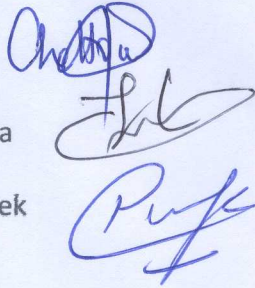
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#### Conference Chairs

Pr. ACHELI Dalila

Dr. LACHKHEB Fadhila

Dr. KHEBLI Abdelmalek



#### Laboratory Director

Pr. CHAIB Ahmed



مدير مختبر التحكم والتطبيقات  
أ. شايب أحمد  
التحكم الآلي  
التطبيقي  
جامعة بومرداس

