

33nd·Mediterranean·Control·and· Automation·(MED-2025)¶

June·10-13,·Farah·Hotel,·Tangier,·Morocco¶

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Welcome Message from the Mediterranean Control Association (MCA) President

Dear authors, participants, and attendees:

Welcome! On behalf of MCA, the parent organization of the MED conferences, I would like to welcome you to the 2025 MED, the 33rdh Mediterranean Conference on Control and Automation, taking place in Tangiers, Morocco. Thank you for your participation and contributions; they are absolutely essential in making MED a success. As a reminder, the MED Conference Proceedings may be found online at <http://ieeexplore.ieee.org>. The Proceedings of early MED Conferences may be downloaded from www.med-control.org, where you may also find Book of Abstracts as well as conference reports of previous MED that have appeared in the IEEE Control Systems Magazine.

The very first MED took place in 1993 in Chania, Greece and over the next 30 years the MED has been in Cyprus, Malta, Italy, France, Croatia, Turkey, Israel, Portugal, Morocco, Spain and several times in Greece (for a complete list of the MED conferences, see www.med-control.org). This year we are meeting for the second time in Morocco. Marrakech, Morocco was the venue for the 18th MED Conference, MED'10.

The MED conferences have always been about bringing together researchers in the area of Control Systems and Automation from the Mediterranean countries, who share much more than technical interests, among other things, culture and history. Since the beginning, the MED conferences have been technically co-sponsored by the IEEE Control Systems Society and the IEEE Robotics and Automation Society, and they have consistently kept high quality standards both in the technical program and the conference organization. This is primarily due to the authors, who submit technically sound papers, also due to the tremendous effort of all the volunteers involved in the technical evaluation of these papers and in the organization of the conferences. I would like to take this opportunity to thank them all for their time, effort and wonderful work. Thank you!

I hope you enjoy the conference! Looking ahead, MED'26 goes to Ancona, Italy (June 23 – 26, 2026) and I am looking forward to seeing you all there!

Panos J. Antsaklis

University of Notre Dame

President, Mediterranean Control Association

Welcome Message from the MED 2025 General Chairs

Dear authors and attendees:

It is our great pleasure to welcome you to this year's Conference. MED 2025 marks the second time the Mediterranean Conference on Control and Automation is hosted in Morocco, and we are honoured to hold it in the vibrant and historic city of Tangier.

The Conference will take place from June 11 to 13, preceded by a Tutorials and Workshops Day on June 10. This year's edition is organized under the auspices of and sponsored by the University Abdelmalek Essâadi and the University of Picardie Jules Verne, and will be hosted at the elegant Hotel Farah Tangier, offering stunning views of the Mediterranean and the Strait of Gibraltar.

Tangier known as Ṭanjah in Arabic, Tánger in Spanish, and Tanger in French is not only a strategic gateway between Africa and Europe but also a city steeped in rich cultural, historical, and artistic heritage. With its unique blend of Arab, Berber, European, and African influences, Tangier has inspired generations of writers, artists, and travellers. We encourage you to take time to discover the ancient medina, surrounded by 15th-century ramparts, the Kasbah and the Sultan's Palace, now home to the Museum of Moroccan Art, and to stroll through the European quarters that reflect its cosmopolitan legacy.

MED 2025 is a physical presence only conference, bringing together experts from academia, industry, government, and students with a shared passion for the state-of-the-art and future trends in control and automation.

We want to express our deepest gratitude to the Organizing Committee, whose tireless efforts, professionalism, and dedication made this conference possible. We also extend our sincere thanks to the Associate Editors, reviewers, and Technical Program Committee members who played a vital role in ensuring the scientific quality of this event. Special appreciation goes to our Program Chairs, Abdel and Driss, for their leadership in managing submissions through PaperCept.

Finally, we thank you for your contributions and presence. We truly hope you will enjoy both the scientific excellence of the conference and the cultural treasures and hospitality of Tangier.

With our warmest regards,

Ahmed El Hajjaji Kamal Rekloui and Ahmed Eloukaidi

Welcome Message from the MED 2025 Program Chairs

Dear authors and attendees:

It is our great pleasure that we welcome you to the 33rd Mediterranean Conference on Control and Automation (MED 2025), to be held in Tangier, Morocco.

This year, in response to the call for papers, we received 174 submissions across technical and invited session tracks. The paper review process was extremely thorough and rigorous. All submissions were carefully evaluated for originality using the iThenticate Document Viewer, and reviewed by at least one of the Program Chairs or members of the Organizing Committee. As a result of this rigorous process, the Technical Program features 125 high-quality peer-reviewed papers both contributed and invited session papers. The program spans three days and includes paper presentations, three Plenary Sessions delivered by distinguished speakers.

We would like to express our sincere thanks to everyone who contributed to the success of the program through their enthusiastic involvement and dedicated efforts. We are particularly grateful to the Associate Editors for their kind support during the review process. Special thanks also go to the organizers of the Tutorials, Workshops, and Invited Sessions.

Our heartfelt appreciation goes to all reviewers for their invaluable contributions and, most importantly, to all authors for submitting their work to MED 2025.

We would especially like to thank Kimon for his thoughtful guidance and invaluable advice throughout the organization of MED 2025, his contribution has been instrumental to the success of the conference.

We sincerely hope that MED 2025 will offer all participants a unique opportunity to expand their knowledge, exchange ideas, and build lasting professional connections. We also encourage you to enjoy not only the technical aspects of the conference, but also the rich cultural experience that Tangier and Morocco have to offer.

Stay safe, keep your systems around 'equilibrium', and we look forward to welcoming you again at the MED'26, Ancona, Italy (June 23 – 26, 2026)!

With our warmest regards,

Abdel Aitouche and Driss Mehdi

MED 2025 General Information

The Venues

The Conference venues are the “*Hotel Farah, five star Hotel in Tangier*”



View one Room



Auditorium

The layout of the venues is shown below. The Conference will take place in Farah Hotel, Plenary talks will take place Auditorium. And the technical sessions in dedicated rooms.

Traveling to Tangier

Tangier, located on the northern tip of Morocco, is a vibrant city at the crossroads of Europe and Africa. Nestled along the Strait of Gibraltar, just 17 miles (27 km) from southern Spain, Tangier blends North African traditions with Mediterranean charm, offering a unique cultural experience for all MED 2025 attendees.

The MED25 conference is conveniently accessible via **Tangier Ibn Battouta Airport (TNG)**, a modern hub located just 20 minutes from the conference venue.

-  **By Air:** Fly directly to www.tanger-aeroport.com, served by international and regional flights.
-  **Taxi:** A quick 20-minute ride to the venue (approx. 12€).
-  **Public Bus:** An affordable option at 4€, with a 30-minute journey to downtown Tangier.

Traveling via Casablanca

For travelers landing at **Casablanca Mohammed V Airport (CMN)**, Morocco's largest international hub:

-  **Airport Info:** Explore services at [Aéroport Mohammed V](#).
-  **High-Speed Train (TGV):** Connect seamlessly to Tangier via Morocco's modern rail network. Book your tickets in advance on [ONCF Voyages](#) for a scenic 2-hour journey along the coast.

Arriving by Air: Tangier is served by the **Tangier Ibn Battouta Airport (IATA code: TNG)**, which is located

Arriving by Sea: Tangier can also be reached by ferry from several Spanish ports including Algeciras and Tarifa. Fast ferries operate daily and arrive at the **Port of Tangier Ville**, located close to the historic city center.

Language and Currency

The official languages are **Arabic** and **Tamazight**, but **French** and **Spanish** are widely spoken, and English is increasingly used in tourist areas. The currency is the **Moroccan Dirham (MAD)**. Major credit cards are accepted in hotels, restaurants, and most shops. ATMs are readily available..

Electricity, Plugs and Sockets

Morocco uses **220 V, 50 Hz AC** electricity. The standard power plug types are **C and E** (European style). Travelers from the UK or the US may need an adapter..

Visa Requirements

Many nationalities, including those from the EU, US, Canada, and several Asian and Latin American countries, do **not** need a visa to enter Morocco for short stays (up to 90 days). Please consult your local Moroccan consulate or embassy for detailed information..

Conference Logistics

MED 2025 is a four-day event, starting with Workshops and Tutorials on Tuesday, June 11, followed by a three-day technical Conference on June 12-14. The Conference includes three Keynote Lectures. The meeting rooms in which all technical sessions will take place in the 4 or 5 rooms of hotel Farah. The Registration Desk is in the *Hall of Farah Hotel*.

Conference Registration: All attendees must register through [the](https://med2025.org) website: <https://med2025.org>. Final paper submission and registration are required for paper presentation. Onsite registration is also available.

Onsite Registration Hours:

- Tuesday, June 10: 9:00 – 12:00 (Tutorials/Workshops) | 15:00 – 20:00
- Wednesday, June 11: 8:00 – 16:00
- Thursday, June 12: 8:00 – 13 :00 PM
- Friday, June 13: 8:00 – 10:00

Registration Fees:

Attendee Status	Advance/early April 07 – May 12	Late/Onsite May 13 – June 10	Max. # of papers per registration
Regular Registration	600	700	2
Student Registration	320	380	1
Retiree	200	200	1
Full Day Workshop / Tutorial	200	240	–
Half-Day Workshop / Tutorial	120	140	–
Extra paper (above 2) upload fee per paper	240	–	–
Additional one-page charge (max. 2 pages)	130	–	–
Guest Registration (all social events)	180	200	
Extra Welcome Reception Ticket	50	50	–
Extra Farewell Reception Ticket	50	50	–
Extra Banquet Ticket	100	100	–

Full registration includes access to all technical sessions, proceedings, exhibits, coffee breaks, banquet, and receptions. It also includes a copy of the conference proceedings. **Student registration** includes access to all technical sessions, proceedings, exhibits, coffee breaks, and receptions.

Author registration : Authors of accepted papers must register when uploading the final versions of their papers. The maximum number of final papers covered by one registration of a given type is listed in the table above. A regular registration covers two (2) papers.

Internet Access and Facilities: All registered attendees will have complimentary Wi-Fi.

Meals and Coffee Breaks: Lunch will be provided for all registered participants on June 11, 12, and 13. Two coffee/meals will be offered daily.

Banquet: MED 2025 includes on Thursday evening a **Banquet Dinner** in Hotel Farah.

City Excursion: We are pleased to offer an organized excursion through the city of Tangier for registered participants and their guests. This guided tour will allow you to discover the rich history and diverse cultural heritage of Tangier, including iconic sites such as the Kasbah, the medina, and the coastal viewpoints overlooking the Strait of Gibraltar

We look forward to welcoming you to MED 2025 in the enchanting city of Tangier!

MED 2025 Tutorials and Workshops

MED'25 offers four pre-Conference Workshops/Tutorials addressing current and future topics in unmanned aircraft systems from experts in academia, national laboratories, and industry. Interested participants may find details on <https://med2025.org> and they may use the online system for registration. Tutorials/Workshops will take place on Tuesday, June 10. Duration is either *Full-Day* (09:00 - 17:00) or *Half-Day* (09:00 - 12:00),

TUTORIALS / WORKSHOPS - Tuesday, June 11		
Location	Time	Title
Room A	Full Day 9:00-17:00	<i>T1 Modeling, Control and Diagnosis of PEM Fuel Cell Systems with techno Analysis using Matlab/Simulink,</i>
Room B	Half-Day 9:00 – 12:00	T2:

MED 2025 Plenary Lectures

MED'25 includes three Plenary Lectures given by leading authorities in their fields. We are proud to include them in the Technical Program. All Plenary Lectures will be in the *Auditorium*.

The schedule for the lectures is shown next.

PLENARY LECTURES		
Day	Time	AUDITORIUM
Wednesday June 11	09:00 – 10:00	<i>Efficient EV Integration for Grid Storage: A Market-Based Approach</i> , Dr. Prof. Munther A. Dahleh, MIT
Thursday June 12	09:00 - 10:00	<i>Is the solution to my optimal control problem correct?</i> Dr. Prof. Eric Kerrigan, Imperial College London
Friday June 13	09:00 - 10:00	<i>Accelerating adaptation/learning/optimization algorithms A today challenge</i> Dr. Director of Research, Ioan Doré LANDAU r

MED'25 Content List and Paper Abstracts

Technical Program for Wednesday June 11, 2025



33rd Mediterranean Conference on Control and Automation

June 10-13, 2025, Tangier, Morocco

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Last updated on April 12, 2025. This conference program is tentative and subject to change.

MED 2025 Conference Program

Follow any of the links to access the conference program

Program at a Glance

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MED 2025 Technical Program Wednesday June 11, 2025				
Track 1	Track 2	Track 3	Track 4	Track 5
08:00-09:00 Hall WeRP Registration				
09:00-10:00 Auditorium Plenary Session WePP Plenary Session I: Prof. Munther A. Dahleh, Efficient EV Integration for Grid Storage: A Market-Based Approach				
10:00-10:30 Hall WeCbP Coffee Break				
10:30-12:30 Auditorium Regular Session WeAA Adaptive Control	10:30-12:30 Room A Regular Session WeAB Control Applications	10:30-12:30 Room B Regular Session WeAC Fault Diagnosis I	10:30-12:30 Room C Regular Session WeAD Genetic and Evolutionary Computation	
12:30-14:00 Restaurant WeLuP Lunch				
14:00-16:00 Auditorium Regular Session WeBA Navigation	14:00-16:00 Room A Invited Session WeBB Intelligent Data Processing	14:00-16:00 Room B Regular Session WeBC Fault Diagnosis II	14:00-16:00 Room C Regular Session WeBD Intelligent Systems	14:00-16:00 Room D Regular Session WeBE Time-Delay Systems
16:00-16:30 Hall WeCb1P Coffee Break Afternoon				
16:30-18:50 Regular Session WeCA Linear Systems	16:30-18:50 Regular Session WeCB Modelling and Simulation	16:30-18:50 Regular Session WeCC Networked Systems	16:30-18:50 Regular Session WeCD Optimisation	

MED 2025 Technical Program Thursday June 12, 2025			
Track 1	Track 2	Track 3	Track 4
08:00-09:00 Hall ThRP Registration			
09:00-10:00 Auditorium Plenary Session ThPP Plenary Session II: Prof. Eric Kerrigan. Is the Solution to My Optimal Control Problem Correct?			
10:00-10:30 Hall ThCbP CoffeeBreak			
10:30-12:30 Auditorium Regular Session ThAA Robotics I	10:30-12:30 Room A Regular Session ThAB Predictive Control	10:30-12:30 Room B Regular Session ThAC Power Systems	10:30-12:30 Room C Regular Session ThAC Nonlinear Control I
12:30-14:00 Restaurant ThLuP Lunch			
14:00-17:00 Travel ThExP Travel			
19:00-22:00 Gala ThGaP Gala Dinner			

MED 2025 Technical Program Friday June 13, 2025			
Track 1	Track 2	Track 3	Track 4
08:00-09:00 Hall FrRP Registration			
09:00-10:00 Auditorium Plenary Session FrPP Plenary Session III: Prof. Ioan Doré Landau. Ccelerating Adaptation/learning/optimization Algorithms a Today Challenge			
10:00-10:30 Hall FrCbP Coffee Break			
10:30-12:30 Auditorium Regular Session FrAA Nonlinear Control II	10:30-12:30 Room A Regular Session FrAB Robotics II	10:30-12:30 Room B Regular Session FrAC Neural Networks	10:30-12:30 Room C Regular Session FrAC Robust Control
12:30-14:00 Restaurant FrCIP Buffet Closing			

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