



International Conference on AI In Systems Engineering (IC-AISE'2025)

PROGRAM OVERVIEW

17-April-2025	
08:00-09:00	Registration
09:00-09:30	Welcome and conference Opening Ceremony: <ul style="list-style-type: none"> • Prof. Khalid MEHDI, Interim President of Sultan Moulay Slimane University • Prof. Abdelrazzak El Harti, Dean of Polydisciplinary Faculty-the Beni Mellal • Prof. Pr. Said SAFI, Conference Chair, Director of the LIMATI laboratory • Prof. Pr. Miloud FRIKEL, ENSICAEN, France, Vice-Chair
10:00-10:50	Keynote Speaker: Dr. Miloud Frikel, From ENSICAEN, Caen, France, "Artificial Intelligence: Algorithmic Approaches and Scientific Applications" Session Chairs: Prof. S. Safi
10:50-11:20	Coffee Break
11:20-12:45	Session 1 (Amphi A)
13:00-14:00	Lunch
14:30-15:30	Keynote Speaker: Prof. Christophe Rosenberger, From ENSICAEN, Caen, France, "Artificial Intelligence for Biometrics" Session Chairs: Prof. M. Frikel, and H. Mouncif
15:40-16:10	Coffee Break
16:10-17:55	Parallel sessions: Session 2 (Amphi A) and session 3 (room B0.1)
18-April-2025	
09:30-10:30	Keynote Speaker: Prof. Mohamed M'Saad, From ENSICAEN, Caen, France, "An Ingenious Tribute to Kalman Estimation" Session Chairs: Prof. A. Farchane and A. Darif.
10:40-11:00	Coffee Break
11:00-12:00	Parallel sessions: Session 4 (Amphi A) and session 5 (room B0.1)
12:10-12:50	Conference Closure Ceremony
14:10-15:00	lunch



17-April-2025: ORAL PRESENTATIONS

	Session 1 (Amphi A) - Machine Learning and Data Analysis Session chairs: Pr. H. Mouncif, Pr. M. Biniz, and Pr. N. Falih
11:20	«An Overview of Some Methods Applied in Smart Cities Studies » , <i>Hasna Kaarour, Said Safi</i>
11:35	«Metaheuristic Approaches for Optimizing Attack Detection in IoT Networks: Feature Selection and Performance Comparison » , <i>Mansour Lmkaiti, Maryem Lachgar, Ibtissam Larhlimi, Houda Moudni, Hicham Mouncif</i>
11:50	«Quality of Service Enhancement in Multi-Access Edge Computing Using a Genetic Algorithm-Based Offloading Strategy » , <i>Oussama Lagnfdi, Marouane Myyara, Anouar Darif</i>
12:05	«Comparative Analysis of Open-Source Web Vulnerability Scanners » , <i>Abdelhadi Zineddine, Sadqi Yassine, Said Safi</i>
12:20	«Sentiment Analysis of Student Feedback in Online Learning Platforms: A Comparative Study of Deep Learning Models » , <i>Raja Ouadad, Hicham Mouncif</i>
12:45	«Enhancing Arabic Handwritten word Recognition with Self-Attention Mechanisms: A Comparative Study of Attention Variants » , <i>Imane Bounour, Ghizlane Khaissidi, Mostafa Mrabti, Alae Ammour</i>

	Session 2 (Amphi A) - Technology and Smart Cities Session chairs : Pr. M. Baslam, Pr. A. Darif, and Pr. H. Mouncif
16:10	«Leveraging Blockchain for IoT: Enhancing Security, Efficiency, and Trust in Connected Ecosystems » , <i>Youness Belaadel, Rachid Fateh, Hassan Ougraz, Houda Moudni, Hicham Zougagh</i>
16:25	«Image Classification and Object Recognition Using Invariant Orthogonal Moments and Machine Learning » , <i>Abdelati Bourzik, Belaid Bouikhalene, Jaouad EL Mekkaoui, Amal Hjouji</i>
16:40	«From Extraction to Abstraction : Evaluating TextRank and BART for Automatic Summarization » , <i>Youssef Ettafssaoui, Omar Bencharef</i>
16:55	«Characterization of Radar Systems Performance » , <i>Hassan facoiti, Said Safi, Ahmed Boumezzough</i>
17:10	«Performance Comparison of TOPS and S-TOPS Algorithms for Wideband DOA Estimation » , <i>Ilham Mahiri, Ougraz Hassan, Said Safi, Miloud Frikel</i>



Session 3 (Room B 0.1)- Optimization and Simulation Session chairs : Pr. S. Hakimi, Pr. H. Ouchitachen, and Pr. A. Oussarhan	
16:10	«Ellipsoidal Outer Bounding Algorithms for Output Error Model Identification Under Bounded Noise», <i>Hasna El Maizi, Mathieu Pouliquen, Said Safi, Miloud Frikel</i>
16:25	«Enhanced TOFS Algorithm with Squared Noise Subspaces for Wideband Direction of Arrival Estimation », <i>Hassan Ougraz, Youness Belaadel, Rachid Fateh, Said Safi, Miloud Frikel</i>
16:40	«Enhancing Cybersecurity Education: GPT-Driven Tools for Empowering Learning », <i>Abdeslam Rehaïmi, Yassine Sadqi, Said Safi</i>
16:55	«Enhancing Security in Wireless Sensor Networks using Intrusion Detection Techniques», <i>Soukaina Oufqir, Houda Moudni, Mohamed Baslam</i>
17:10	«Digital optimization of the performance of CIGS thin-film solar cells via SCAPS-1D », <i>Ismail Hadije, Lahcen Ouhmad, Abdessamad Malaoui</i>

18-April-2025: ORAL PRESENTATIONS

Session 4 (Amphi A)- Physics and Energy Session chairs: Pr. B. Manaut and Pr. A. Farchane	
11:00	«Effect of laser field polarization on elastic electron-atom scattering », <i>Fadoua Omari, Moha Ouali, Souad Taj, Bouzid Manaut</i>
11:15	«AI-Attack on Cryptographic Algorithms: A Classification-Based Approach », <i>Hamza Allaga, Abderrazak Farchane, Mohamed Biniz, Said Hakim</i>
11:30	«Numerical simulation of a rarefied gas using the DVM method in a well-defined geometry», <i>Brahim Elaaddam, Mohamed Hssikou, Jamal Baliti, Youssef El Guennouni</i>
11:45	«Simulation of nanofluid flow in a stenotic artery», <i>Abdelmajid Saidi, Issa El Glili, Mohamed Driouich, Mohamed Sammouda</i>
12 :00	«Quantum Fisher and Skew Information under Decoherence in Three-Qubit X-States», <i>Adnan Naimy, A. Slaoui, A. Ali, H. El Hadfi, R. Ahl Laamara, S. Al-Kuwari</i>
12:15	«Inelastic collision 1s-2p in relativistic and nonrelativistic régimes», <i>C. Hajjaj, M. Ouali, M. Jakha, Y. Mekaoui, M. El Idrissi, S. Taj & B. Manaut</i>



	Session 5 (Room B0.1)- Physics and Energy Session chairs: Pr. A. Gaga and S. Taj
11:00	«Expérimentation d'un système qui permet de récupérer de l'énergie thermique en utilisant le module thermoélectrique dans le chauffe-eau à gaz », <i>Lahcen Ouhmad, Hadije Ismail, Abdessamad Malaoui</i>
11:15	«New studies for the prediction of hydride perovskite materials for hydrogen storage», <i>Waqdim Abderraman, Mohamed Aguri, Hakima Ouhinou, Hmad Fatihi, Abderrahmane Abbassi, Souad Taj, Bouzid Manaut, Moha El idrissi</i>
11 :30	«Real-Time Robust Drone Orientation Estimation Based on IMU Sensor Fusion and the Kalman Filtering Technique», <i>Abdelilah Ait Ijja, Ahmed Gaga</i>
11:45	«Ab initio study of the structural, electronic, and optical properties of MgTiO3 perovskite materials doped with N and P », <i>Abdellah Bouzaid, Younes Ziat, Hamza Belkhanchi</i>
12:00	« State Estimation based unconstrained Model Predictive Control for liquid level tanks », <i>Zohra ZIDNAE</i>

CONFERENCE COMMITTEE

HONORARY COMMITTEE

- ❖ Professor **Khalid MEHDI**, *Interim President of Sultan Moulay Slimane University*
- ❖ Professor **Abdelrazzak EL HARTI**, *Dean of Polydisciplinary Faculty-the Beni Mellal*
- ❖ Professor **Said SAFI**, *Director of the LIMATI laboratory*
- ❖ Pr. **Miloud FRIKEL** (vice Chair), *ENSICAEN school, Caen University, France*

GENERAL CHAIRS

- ❖ Pr. **Said SAFI** (Coordinator and general Chair), *Sultan Moulay Slimane University*
- ❖ Pr. **Miloud FRIKEL** (vice Chair), *ENSICAEN school, Caen University, France*

ORGANIZING COMMITTEE

- ❖ Pr. **Said SAFI** (Coordinator and general Chair), *Sultan Moulay Slimane University*



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KEYNOTES



Biography: Dr. **Christophe ROSENBERGER** is a Full Professor in computer science at ENSICAEN - Director of the GREYC research lab, France. He obtained his PhD in Information Technology from the University of Rennes 1 in 1999. His PhD thesis work was undertaken at ENSSAT in Lannion between 1996 and 1999 in the field of hyperspectral image processing. He joined the ENSI de Bourges school of engineering in Bourges (known now as INSA Centre Val de Loire) as associate professor in 2000. In 2007, he joined the ENSICAEN school of engineering in Caen as full professor. He is actually director of the GREYC research lab composed of 180 members. He belongs to the SAFE (Security, Architecture, Forensics, biomEtrics) research group in the GREYC research lab. His current work focuses in the domain of cybersecurity, in particular research activities in biometrics (keystroke dynamics, soft biometrics, evaluation of biometric systems, fingerprint quality assessment...) and digital forensics. He has authored or co-authored over 200 international publications and co-supervised 25 PhD thesis..

Title : Artificial Intelligence for Biometrics.



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Biographie : Dr. Mohamed M'SAAD He was educated at the Ecole Mohammadia d'Ingénieurs where he held an assistant professor position in September 1978. He started his research activities at the Laboratoire d'Electronique et d'Etude des Systèmes Automatiques where he prepared an engineering thesis of the Université de Mohammed V on the adaptive control of industrial processes. In November 1982, Mohammed M'SAAD joined the Laboratoire d'Automatique de Grenoble to prepare a PhD thesis of the Institut National Polytechnique de Grenoble, on the fundamental features of the adaptive control and its applicability, which he obtained in April 1987. In April 1988, he held a research position at the Centre National de Recherche Scientifique with an affectation in the Laboratoire d'Automatique de Grenoble. In September 1996, Mohammed M'SAAD held a professor position at the Ecole Nationale Supérieure d'Ingénieurs de Caen where he founded a control process laboratory in 1997 which became a control group at the GREYC UMR CNRS in January 2004. His main research activities are mainly devoted to the fundamental, methodological and applied features of the identification, observation and adaptive control of dynamical systems. He had several important scientific and collective responsibilities, namely the director of the GREYC UMR CNRS from January 2012 to March 2016. Since September 2022, Mohammed MSAAD is Emeritus Professor attached to the Systems Engineering Laboratory of Caen.

Title : An Ingenious Tribute to Kalman Estimation



Biography: Dr. **Miloud FRIKEL** is an Associate Professor at National Graduate School of Engineering and Research Center (ENSICAEN), and head of SATE's Department (Embedded Systems and Control), and he is the Deputy-Director of the Systems Engineering Lab of Normandy (LIS). He was with the R&T (Networks and Telecommunications) Department of the University of Caen (Normandy University). He received his Ph.D. degree from the Center of Mathematics and Scientific Computation CNRS URA 2053, France, in array signal processing. **Dr. Frikel** was with the Signal Processing Lab, Institut for Systems and Robotics, Institute Superior Tecnico, Lisbon, as a researcher in the field of wireless location and statistical array processing. And he worked in the Institute for Circuit and Signal Processing of the Technical University of Munich, Germany. M. Frikel is member of German Foundation: Alexander von Humboldt Stiftung. His research interests span several areas, including statistical signal and array processing, cellular geolocation (wireless location), direction finding and source localization, blind channel identification for wireless communication systems and MC-CDMA systems.

Title : Artificial Intelligence: Algorithmic Approaches and Scientific Applications