



INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE IN SYSTEMS ENGINEERING

IC-AISE'2026

PROGRAM

April 23 - 24, 2026 · Beni Mellal, Morocco

Polydisciplinary Faculty of Beni Mellal (FPBM) · Sultan Moulay Slimane University

THURSDAY, APRIL 23, 2026

Day 1 — Opening Ceremony & Keynote Speakers

08:30 - 09:00 Welcome and Registration

09:00 - 09:30 Opening Ceremony

- Pr. Khalid MEHDI, Interim President, Sultan Moulay Slimane University
- Pr. Abderrazak El Harti, Dean, Polydisciplinary Faculty, Beni Mellal
- Pr. Said SAFI, Conference Chair, Director of LIMATI Laboratory
- Pr. Miloud FRIKEL, Vice-Chair, ENSICAEN, France

09:30 - 10:30 **KEYNOTE 1 Pr. Olivier GEHAN** — ENSICAEN, Caen, France (On-site)
"Driverless Driving: The future of intelligent transport"
 Chair: Pr. Said SAFI

10:30 - 11:00 COFFEE BREAK

11:00 - 12:00 **KEYNOTE 2 Pr. Mathieu Pouliquen** — ENSICAEN, Caen, France (Online)
"Shared Intelligence: Some Models and Applications"
 Chair: Pr. M. Frikel

Session 1

Amphi A

ON-SITE

Chair: Pr. Anouar Darif & Pr. Abderrazak Farchane

TIME	ID	TITLE	AUTHORS
12:00	65	Towards a Moroccan context of participatory smart cities	Tawfik BENCHAGRA *; Meriem El harkaoui
12:15	71	Meta-Learning-Based Fast Identification of Linear Systems: FIR Systems	Hicham Oualla ; Rachid FATEH *; M. Pouliquen
12:30	59	Semantic Integration of BERT and WordNet for Enhanced Contextual Sentiment Analysis	Youness. MADANI *; A. ABAHAJ ; T. BENCHAGRA
12:45	27	An Object Recognition Framework Using Invariant Krawtchouk-Charlier Moment Features and ML	Abdelati Bourzik *; B. Bouikhalene ; J. El-Mekkaoui
13:00	92	Nonrelativistic and Semirelativistic Analysis of Laser-Assisted 1s-2p Excitation in Atomic H	Chahir Hajjaj *; B. Manaut ; S. Taj ; M. El idrssi

13:15 - 14:15 LUNCH

THURSDAY, APRIL 23, 2026 – AFTERNOON
 Keynote 3 & Parallel Sessions

14:15 – 15:15

KEYNOTE 3 Pr. Morgane Joly — *ENSICAEN, Caen, France (Online)*
"Shared Intelligence: Some Models and Applications"
 Chair: Pr. M. Frikel

15:15 – 15:30

COFFEE BREAK

THURSDAY AFTERNOON – PARALLEL SESSIONS

Sessions 2–5

Session 2

Amphi A

ON-SITE

Chair: Pr. Anouar Darif & Pr. Abderrazak Farchane

TIME	ID	TITLE	AUTHORS
15:00	74	Classical and Learning-based MIMO Channel Identification: A Comparative Study	OUSAMA EL-AZIZI *; Rachid Fateh; Hasna El Maizi; Mathieu Pouliquen; Said Safi
15:15	38	A Metaheuristic-Based Task Offloading Strategy for Quality of Service Enhancement in Multi-Access Edge Computing	Oussama Iagnfdi *; Marouane Myyara; Anouar Darif
15:30	42	Algorithmic Approaches for Real-Time Data Traffic Optimization in Smart Cities	Hasna Kaarour *
15:45	86	Leveraging Blockchain for IoT: Enhancing Security, Efficiency, and Trust in Connected Ecosystems	YOUNESS BELAADEL *; Houda Moudni; Rachid Fateh; Hicham Zougagh
16:00	73	Deep Learning-Based Computation Offloading for Multi-Access Edge Computing	Mohamed EL Hajji *; Ayoub Atti; Abdessamad Chaou; Anouar Darif
16:15	53	A Multi-Criteria Greedy Heuristic Task Offloading Algorithm for Latency-Constrained Applications in MEC Systems	Marouane MYYARA *; Oussama Iagnfdi; Anouar Darif; Abderrazak Farchane
16:30	100	An Automated LLM-Based Approach for HTTPS Security Awareness Profiling: Evidence from Moroccan Web Stakeholders	Abdelhadi Zineddine *; Mohamed Zaoui; Abdeslam Rehaïmi; Yassine Sadqi; Said Safi

Session 3

Room B0.1

ON-SITE

Chair: Pr. Hicham Mouncif & Pr. Farouk Ouatik

TIME	ID	TITLE	AUTHORS
15:00	13	An Intrusion Detection System for IoT Security Based on Deep Learning	Abdessamad CHAOU *; M. El Hajji; A. Atti
15:15	18	MAML-IDS: Agentic Intelligence for MQTT Security	Hamza Allaga *; C. El-ouichouany; M. Biniz
15:30	19	AI and Big Data Analytics Towards Resilient and Smart Supply Chains	ZAYNAB KHALFI *
15:45	20	Multi-Objective Urban Venue Recommendation from Logged Bandit Feedback	Merieme Debbagh *; Y. Madani; B. bouikhalene
16:00	26	A Secure Federated Learning Framework for Smart City Crowdfunding Ecosystem	Saad MAHMOUDI *; Mohamed AMNAI
16:15	87	SBL-TOPS: Multi-Reference Sparse Bayesian Learning for Wideband DOA Estimation	Hassan OUGRAZ *; I. MAHIRI; S. SAFI; M. FRIKEL
16:30	31	Decentralized Trust Orchestration: A Multi-Tiered Blockchain Framework for Secure Banking	mouad zouina *

Session 4

Room B1.1

ONLINE

Chair: Pr. Chakib Bouknani & Pr. Hichame Ouchitachen

Link: [\[Google Meet\]](#)

TIME	ID	TITLE	AUTHORS
15:00	28	Intrusion Detection in Wireless Sensor Networks: Techniques and Challenges	soukaina oufqir *; H. Moudni; M. Baslam
15:15	30	Detecting Botnet Attacks in IoT Networks Using Lightweight Machine Learning	Elmahdi Hidsi *; Mouncif Hicham
15:30	54	Agri-Food Quality and Safety for Diabetes Prediction: An AI-Based Approach	Youssef Fakir *; W. Fakir; R. El Ayachi
15:45	88	A Generative AI-Enabled Framework for Smart Healthcare in Smart City Environments	Hayat JEBBAR *; M. EL MOHADAB; O. BOUTKHOUM
16:00	98	Enhancing SDN Sensitivity Analysis Using Soil Sensor Dataset with DoS Attack Detection	Abdelaziz El yazidi *; M. S. AZIZI; A. RHATTOY
16:15	101	Hybrid Metaheuristic Approaches for UAV Trajectory Optimization in IoT and WSN	Mohamed Abid; Said El Kafhali *
16:30	16	Pragmatic Disentanglement: Cost-Sensitive Multi-Task Learning for Arabic Sentiment	Hafida Hidani *; S. El Ouahabi; M. Filali Bouami

Session 5

Room B1.2

ONLINE

Chair: Pr. Youness Madani & Pr. Mohammed Baslam

Link: [\[Google Meet\]](#)

TIME	ID	TITLE	AUTHORS
15:00	44	Feature-Level Diffusion Convolutional Networks for Image Anomaly Detection	Thuan Nguyen *; Ngu Huynh
15:15	48	MIASE: Motivational Interviewing Agent through State and Emotion Recognition	Hanae AURAG *; S. El Ouahabi; M. Filali Bouami
15:30	79	Boundary-Guided Swin Transformers for Multi-Class Brain Tumor Segmentation	Md. Amin-UR- Rashid; Sadia . *
15:45	70	A Kernel Learning-Based Ellipsoidal Outer-Bound for Identification	HASNA EL MAIZI *; M. POULIQUEN; S. Safi; O. GEHAN
16:00	72	Privacy-Conserving Intelligent Detection for Industrial IoT via Federated Learning	chaima el-ouichouany *; A. Farchane; H. Allaga
16:15	75	CNN-Based Robust DOA Estimation Using a Covariance Matrix	ILHAM MAHIRI *; H. OUGRAZ; S. SAFI; M. FRIKEL
16:30	17	A Comprehensive Framework for Radar Detection Performance Analysis and Optimization	Hassan FACOITI *

FRIDAY, APRIL 24, 2026 – DAY 2
 Closing Keynotes & Parallel Sessions

09:00 - 10:00 **KEYNOTE 4 Pr. Miloud FRIKEL** — ENSICAEN, Caen, France (On-site)
"Swarm Intelligence: Some Models and Applications"
 Chair: Pr. Said SAFI

10:00 - 10:30 **COFFEE BREAK**

10:30 - 11:00 **KEYNOTE 5 Pr. Christophe ROSENBERGER** — ENSICAEN, Caen, France (Online)
"AI for Biometrics"
 Chair: Pr. Said SAFI

FRIDAY MORNING – PARALLEL SESSIONS

Sessions 6–9

Session 6

Amphi A

ON-SITE

Chair: Pr. Olivier Gehan

TIME	ID	TITLE	AUTHORS
11:00	36	Artificial Intelligence for Enhancing Data Reliability in Recruitment Systems	Douae Benzouina *
11:15	37	Hybrid BERT-Lexicon Model for Sentiment Analysis on the IMDB Dataset	Maryem ouchalla *; Y. MADANI ; B. BOUIKHALENE
11:30	45	Neural-Swarm Optimization for IoT Intrusion Detection	Ikram El Hamoumi ; M. Johri *
11:45	14	Machine Learning for Network-Delay Minimization in Multi-Access Edge Computing	Ayoub Atti *; A. Chaou ; M. El Hajji ; A. Darif
12:00	49	Measuring Green Growth Performance and Energy Optimization in Morocco: TOPSIS-DEA	Mohamed ELMOUKHTAR *; F. TOUHAMI ; O. TAOUABIT ; L. BOULKHIR ; A. BELBOULI

Session 7

Room B0.1

ON-SITE

Chair: Pr. Miloud Frikel

TIME	ID	TITLE	AUTHORS
11:00	95	A Hybrid AI Framework for Academic Guidance in Low-Data Educational Environments	Farouk OUATIK *; A. OUATIK ; M. ELMOHADAB ; F. OUATIK
11:15	60	Comparative Performance Evaluation of IoT Routing Protocols: RPL, AODV and ZigBee	Asmaa dahhaoui *; H. mouncif ; I. Aattouri
11:30	103	A Multimodal Approach to Stress Level Classification Using Facial Expressions	Ayoub Ouarka; T. Ait Baha; Y. Es-Saady*; M. El Hajji
11:45	35	Hybrid CNN-LSTM-Transformer Framework for Precision Irrigation with Explainable AI	Maryam BOUZIDI *; B. Bouikhalene ; Y. MADANI ; M. FARISSI

Session 8

Room B1.1

ONLINE

Chair: Pr. Mouad Zouina

Link: [\[Google Meet\]](#)

TIME	ID	TITLE	AUTHORS
11:00	83	Statistically Weighted Feature Reconstruction for Image Anomaly Detection	Tri Nguyen *; Ngu Huynh
11:15	89	Comparative Evaluation of ML for Multi-layer Intrusion Detection in Microservices	Samira KHALFAOUI *; A. AZMANI
11:30	91	Comparing ML Models for Predicting Grade Repetition Risk in Morocco	Ibrahim ALLALI *; L. ZOUIRI
11:45	93	Optimized Explainable Deep Learning with Attention for Thyroid Disease Prediction	Md. Hasib Hasan *; R. Basry
12:00	102	Optimization of IoT Network Attack Detection through Metaheuristic Feature Selection	Mansour Lamkaiti *; I. Aattouri
12:15	78	A Hybrid Vision-Radar Embedded System for Real-Time Obstacle and Lane Detection	Hassan FACOITI *

Session 9

Room B1.2

ONLINE

Chair: Pr. Hicham Mouncif

Link: [\[Google Meet\]](#)

TIME	ID	TITLE	AUTHORS
11:00	76	Comparative Study of Wideband DOA Estimation Using TOPS and S-TOPS Algorithms	Ilham MAHIRI *; H. OUGRAZ ; S. SAFI
11:15	77	Performance Analysis of Adaptive Filters for Background Noise Reduction	Ahlam TACHIFOURT *; H. Oualla ; S. Safi
11:30	50	AI-Powered Decision Support System for Agricultural Cooperatives	Layla BOULKHIR *; M. ELMOUKHTAR
11:45	24	High-Precision Parameter Identification of PEM Fuel Cells Using Bio-Inspired Algorithm	Aanas Bouaouda *; Y. Sayouti
12:00	63	Crypto-Agents: Automating Cipher Classification with Modular SVM Pipelines	Hamza Allaga *; A. Farchane

12:00 - 13:00 **CLOSING CEREMONY & LUNCH**

15:00 **SOCIAL OUTING Guided Tour & Excursion**

Join us for a memorable social outing to explore the beautiful surroundings of Beni Mellal. Departure from FPBM.

IC-AISE'2026

3rd International Conference on Artificial Intelligence in Systems Engineering

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