



International Conference on Modern Artificial Intelligence & Data Science Systems

PROGRAM



20-22 January 2026



**Mohammed V University in Rabat, Faculty of Science,
4 Avenue Ibn Battouta, Rabat, Morocco**



For more information :

 <https://maidss.org/maidss26/>

 maidss26@maidss.org

Publishing Partner :



Tuesday, January 20, 2026

08:30 - 09:00

Registration

09:00 - 09:30

Opening Ceremony (Amphi Belmahi)

Pr. Abdellah IDRISSI (General Chair, Faculty of Science of Rabat)

Pr. Amal El Fallah SEGHROUCHNI (Minister, Digital Transformation and Administrative Reform, Morocco)

Pr. Aawatif HAYAR (Minister of Solidarity Social Integration and Family, Morocco)

Pr. Mohammed RHACHI (President, Mohammed V University in Rabat)

Pr. Redouane BENAINI (Dean, Faculty of Science of Rabat)

Pr. Fouzia OMARY (Faculty of Science of Rabat)

09:30 - 10:15

Keynote Speaker 1 (Amphi Belmahi)

Session Chairs: S. Guetibi + A. Mobyen + K. El Handri + H. Ouadi + A. Yazidi

Pr. Dr. Shahina BEGUM (Sweden). Industrial Artificial Intelligence Systems: Current Practice and Impact.

10:15 - 11:00

Keynote Speaker 2 (Amphi Belmahi)

Session Chairs: S. Guetibi + A. Mobyen + K. El Handri + H. Ouadi + C. Lagrini

Pr. Dr. Aawatif HAYAR (Morocco). Cognitive Smart Cities Powered by a Moroccan Frugal Sovereign Social Artificial Intelligence Model.

11:00 - 11:30

Coffee Break

Presentations (10 mn each + 5 mn Discussion)

11:30 - 13:00		(Amphi Belmahi)
Session Chairs: A. Mobyen + S. Guetibi + B. El Ouahidi + H. Echoukairi + N. El Khattabi + A. Emalyani + F. Ouardi + K. Elhandri + F. Sihi + G. Orhanou + H. Chaoui + H. Elbakkali		
11:30	Paper 69. Mir Riyanul Islam, Elizabeth Humm, Alexandre Veyrie, Shaibal Barua, Mobyen Uddin Ahmed, Shahina Begum, Sara Kebir, Christophe Hurter, Giulia Cartocci and Pietro Arico'. Challenges and Future Directions for AI-based Systems for Remote Digital Towers.	
11:45	Paper 39. Fayrouz Sihi and Abdellah Idrissi. Feature-Efficient Intrusion Detection on UNSW-NB15 with Filter/Wrapper Selection and Live-Traffic Validation.	
12:00	Paper 60. Hayat Ouadi and Ilhame El Farissi. An Explainable Decision Support Model for Enhancing Health Spending Control.	
12:15	Paper 80. Anis Yazidi. NeuroHITS++: Query-Conditioned Hub-Authority Diffusion on Directed EEG Graphs for Motor Imagery Decoding.	
12:30	Paper 44. Souhaila Akrikez. Named Entity Recognition : A Comparative Study of Classical Deep Learning and Transformer-based Approaches.	
12:45	Paper 72. Adam Koty Abbass Ahmat and Habiba Chaoui. Decentralized and Secure Facial Recognition System Integrating Blockchain, ARCFACE, and FIASS for Biometric Identity Management.	

11:30 - 13:00		(Salle 3)
Session Chairs: S. Trichni + A. Ouacha + A. Yahyaoui + S. Douzi + S. Akrikez + F. Sihi + Y. Boutyour + M. El Ghmari + B. Ahiod + D. Lotfi + H. Khalifi + H. Laanaya + I. Belhajem		
11:30	Paper 21. Yasmine Lamari, Bouchra Karoum, Bilal El-Ghadyry and Rachid Fateh. Exploring Parallel Architectures in Automatic Speech Recognition.	
11:45	Paper 35. Maryam El Boujamaoui, Ahmed El Yahyaoui and Fouzia Omary. Next-Generation Instance Segmentation in Fetal Ultrasound: Deep Learning Pathways to Foundation Models.	
12:00	Paper 34. Sara Kahouajane and Mohamed Essalih. Topology-Driven Information Diffusion with the DL-Harary Model.	
12:15	Paper 53. Hanane El Amraoui, Zineb Rahim and Saïd Hinti. Evaluating Pension Fund Governance with a Composite Board Index: A Moroccan Panel Study (2004–2024)	
12:30	Paper 64. Hajar El Gadi, Wahiba Abou-Zbiba, Zaina Maqour, Hanan El Bakkali, Driss Benhaddou and Houda Benbrahim. SI-CAR: A Secure Mobile Crowdsensing Framework for Road Safety with Hybrid Access Control and Multi-Layer Security.	
12:45	Paper 25. Khaoula Enaimi and Abdellah Idrissi. DENCLUE-MA: A New Efficient Algorithm for Better Clustering.	

PROGRAM - MAIDSS'26

11:30 - 13:00	
(Salle des Séminaires)	
Session Chairs: C. Lagrini + F. Omary + K. Elhandri + A. Nejari + N. Khattabi + Y. El Bennani + M. Bougrine + S. Trichni + H. Benbrahim + L. Ballihi + L. Sardi + K. Asmi	
11:30	Paper 7. Gaurij Mahajan. Navigating Fairness in Data-Driven Business Decision Models: Emerging Challenges and Strategies.
11:45	Paper 55. Othmane Yaacoubi, Noussaima El Khattabi and Younes Ouargani. Offensive Moroccan Comment Detection Using Contextual and Distributed Embeddings.
12:00	Paper 67. Mustapha Elbakai, Youness Boutyour, Aicha Elmessaoudi and Abdellah Idrissi. Variational Autoencoder with Temporally-Weighted Contrastive Loss for Predictive Maintenance.
12:15	Paper 12. Chaimae Elbarhli and Nada Soudi. The Latest Advances in Artificial Intelligence for Credit Rating: A Literature Review.
12:30	Paper 77. Chahrazad Lagrini and Abdellah Idrissi. AI-based approach for strategic intelligence and media trend analysis.
12:45	Paper 3. Anass Bayaga. Determining spatial cognition among STEM learners via GeoGebra simulations and interactive elements: Hybrid PLS-SEM-ANN approach.

13:00 - 14:30	
Lunch (90 minutes)	

14:30 - 15:30	
Keynote Speaker 3 (Amphi Belmahi)	
Session Chairs: S. Begum + A. Mobyen + A. Yazidi + K. Elhandri + K. Zine-Dine + M. Ammari + A. Riad Solh + F. Sihi + H. Ouadi + A. Ezzahout + F. Omary + A. Idrissi	
Pr. Dr. Vincenzo PIURI (Italy). Artificial Intelligence and Biometrics: challenges and opportunities.	

Presentations (10 mn each + 5 mn Discussion)	
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15:30 - 17:00	
(Amphi BELMAHI)	
Session Chairs: S. Trichni + Y. Zaitar + FZ. Ziani + F. Ouardi + H. Ouadi + M. Benmamoun + K. Enaimi + K. El Handri + N. Soudi + M. Benkhalifa + M. El Ghmary	
15:30	Paper 47. Chaima Ehbali, Ali Ouacha and Ahmed El Yahyaoui. Quantum-Safe Mobile Payments: Evaluating PostQuantum Cryptographic Integration for Secure Transactions.
15:45	Paper 9. Youness Boutyour. When AI Writes the Market: Evidence of Signal Degradation from LLM-Generated Financial Narratives
16:00	Paper 79. Mohammed Achraf Bendourou, Anouar Riad Solh, Soumia M. Souchak and Hamid Ez-Zahraouy. A new interactive learning approach for solving single-variable equations, adapted to the context of inclusive education.

PROGRAM - MAIDSS'26

16:15	Paper 14. Said Ouabou and Abdellah Idrissi. Optimizing Support Vector Machines: Strategies for Enhanced Classification and Real-World Impact in Education.
16:30	Paper 61. Aya Alaoui, Ahmed El Yahyaoui, Salima Trichni and Fouzia Omary. A Systematic Mapping Study of Deep Learning for EGFR Mutation Prediction for Lung Adenocarcinoma.
16:45	Paper 26. Khaoula Enaimi and Abdellah Idrissi. Comparative Analysis between Single-Solution and Population-Based Optimization Strategies for Enhancing the Execution Efficiency of the DENCLUE Algorithm.

15:30 - 17:00

(Salle 3)

Session Chairs: M. Ammari + H. Benaboud + A. Ouacha + H. Echoukairi + A. Yahyaoui + M. Bougrine + S. Guetibi + M. Belhiah + FZ. Rida + L. Oufkir + B. Ahiod + A. Ezzahout

15:30	Paper 31. Nazif Tchagafo, Abderrahmane Ez-Zahout and Belaid Ahiod. An Improved E-Commerce Predictive Modeling Based Big Data Analytics And Artificial Intelligence Techniques.
15:45	Paper 40. Amal Nejjari, Abdellah Idrissi and Kaoutar Elhandri. Recommendation Systems with Large Language Models: A Comprehensive Analysis.
16:00	Paper 59. Ranya Taoui, Ahmed El Yahyaoui and Iyad Lahsen-Cherif. AI-Based Anomaly Detection in V2X Communications under Adversarial Attacks: A Systematic Literature Review.
16:15	Paper 75. Mohssine Teghida and Nada Soudi. Leveraging AI and gamification for behavioral adaptation in smart service platforms: A systematic review and ethical architecture.
16:30	Paper 20. Roushnaty Ali Yamani, Naira Abdou Mohamed and Aouane El Mahjoub. Mining Scientific Abstracts for Pesticide-Related Health Risks.
16:45	Paper 15. Hanie Ammari, Mohammed Ammari and Abdellah Idrissi. A Generic Scalable AI-Driven Architecture For Automated Test Data Generation.

17:00- 18:00

Coffee Break and Posters

Wednesday, January 21, 2026 (All Presentations on this Day will be Held Remotly)

10:00 - 11:00

Keynote Speaker 4 (Amphi Belmahi)

Session Chairs: F. Sihi + A. El Haddadi + F. Omary + K. Elhandri + S. Guetibi + C. Lagrini + A. C. Baraka + D. Ahmadoune + A. Idrissi + F.Z. Rida + F.Z. Belouadha + F. El Omari

Pr. Dr. Amita KAPOOR (India). *Agentic AI and the Road to Production Deployment.*

11:00 - 11:30

Coffee Break + Posters

11:30 - 13:00

Presentations (10 mn each + 5 mn Discussion)

11:30 - 13:00 (Amphi Belmahi) - The Presenting Authors will be Online	
Session Chairs: Y. Boutyour + C. Lagrini + F. Sihi + A. El Haddadi + F. Omary + S. Guetibi + C. Lagrini + A. C. Baraka + H. Ouadi + NEH. Chaoui + O. Sbai + S. Mouline + M. Rziza	
11:30	Paper 17. Md. Ashraf Bin Alam, Rasiful Islam Efaz, Md Abdul Ahad, Hejbulla Asad Shehab, Shahriar Sultan Ramit and Md. Sadekur Rahman. Explainable AI-Powered Classification of Lychee Leaf Diseases Using Advanced Deep Learning.
11:45	Paper 48. Aicha Dakir, Mohamed El Hajji and Youssef Es-Saady. YOLOv9-Based Intelligent Framework for Automated Tomato Sorting with Human-in-the-Loop Adaptability.
12:00	Paper 52. Van Tran Anh, Quyen Nguyen Van, Bich Do Ngoc, Khanh Pham Nam, Dat Nguyen Tien and Hieu Bui Van. FlashDiff: Accelerated and Guided Image Synthesis.
12:15	Paper 50. Houda Amazal. Explainable Generative Models for Student Success Prediction in Big Data Environments.
12:30	Paper 58. Hanane Ait Elasri, Driss Khomsi and Naoual Semlali Aouragh Hassani. AI-Based Multi-Objective Optimization of the Green Vehicle Routing Problem in Smart Cities.
12:45	Paper 5. Bachar Tarraf, Bassel Seif El Dine and Loyal Jradi. Machine Learning Regression Models to Predict Yearly Vegetation Index Using Weather and Soil Data.

11:30 - 13:00 (Salle 3) - The Presenting Authors will be Online	
Session Chairs: S. Trichni + H. Benaboud + A. Ouacha + M. El Ghmary + H. Echoukairi + A. Riadsolh + A. Ezzahout + S. Ziti + M. Elmaallam + Y. Zaoui + E. M. Souidi + S. Diwani	
11:30	Paper 36. Somaya Sadik and Mohamed Et-Tolba. An Agentic AI Committee for Market Regime Detection: A Financial Signal Processing Approach.
11:45	Paper 33. Chaimaa Bouafoud, Abdellah Madani and Khalid Zine-Dine. The Impact of Adoption Rosetta Stone as an AI-Powered Language Learning Solution: Case of Morocco.
12:00	Paper 10. Nguyen Dinh Bach, Tran Tien Long, Nguyen Thanh Dat, Chu Dang Huong and Tran Viet Hung. ReGraD: Relational Graph Distillation with Multi-View Augmentation.
12:15	Paper 13. Roshayu Mohamad, Reef Mohammed Albugami, Reem Abdulrhman Alothimen and Ruzan Ahmed Alshaikh. Deepfake Detection Application Using CNN, ResNet and LSTM.
12:30	Paper 62. Md. Hasib Hasan and Mohammed Anwer. PoribohonNet: Towards Autonomous Driving in Bangladesh with a CNN-Based Approach to Road Vehicle Classification.
12:45	Paper 78. Ahmed Sarwar Mohammed. PoribohonNet: Adaptive Urban Networks: A Data-Driven Approach for Smart City Integration.
13:00	Paper 30. Oumnia Ait Arkonte, Abdellah Madani, Hicham Zmaitita and Khalid Zine Dine. Toward Effective Phishing Detection – Integration of Transformer Models and Graph Neural Networks.

PROGRAM - MAIDSS'26

11:30 - 13:00 (Salle Séminaires) - <i>The Presenting Authors will be Online</i>	
Session Chairs: <i>I. El Asri + A. Riadsolh + FZ. Ziani + M. Benmamoun + Y. Boutyour + N. El Khattabi + M. Bougrine + S. Trichni + S. Laghmati + S. Bouarourou + Y. Benkaouz</i>	
11:30	Paper 19. Aanal Raval and Komal Borisagar. Zero-Shot Text-to-Image Synthesis with CLIP-Aligned Quantized Attention and Contrastive Semantics.
11:45	Paper 28. Fatima Benzhair, Haytam Elyoussfi, Mouad Alami Machichi, Rahma Azamz and Salwa Belaqqiz. Robust Olive and Wheat Discrimination Classification from Sentinel 2 Using XGBoost in El Haouz, Morocco.
12:00	Paper 29. Ahmed Lazaar, Asmae Elghazi and Ayoub Benlamkadem. A Critical Review and Conceptual Framework Integrating AI, Federated Learning, and Zero Trust Architecture for IoT Security.
12:15	Paper 71. Anass Mamouny and Mina Elmaallam. HeritageOntoMa-Gen: A Knowledge-Driven AI Approach for Semantic Text Generation in Moroccan Cultural Heritage Based on the CIDOC CRM Ontology.
12:30	Paper 45. Yassine Yazidi, Hamid Garmani and Mohamed Baslam. Cross Contextual Graph-of-Thoughts Reasoning for Multi-Step Question Answering with LLMs.
12:45	Paper 57. Ibrahim Alneami, Lobna Hsairi, Abdullah Algamdi and Majed Abdouli. Intelligent Service Asymmetry (ISA): A Smart Fuel Replenishment Framework Integrating IoT and Machine Learning.

13:15 - 14:30

Lunch (90 minutes)

14:30 - 15:15

Keynote Speaker 5 (Amphi Belmahi)

Session Chairs: *A. Mobyen + H. Ouadi + K. Elhandri + S. Trichni + M. Ammari + Y. Zaitar + H. El Amraoui + N. Soudi + H. Echoukairi + A. El Yahyaoui + F.Z. Ziani + A. El Haddadi*

Dr. Chirag Agrawal (USA). *Designing Agentic Loops that Actually Ship.*

15:15- 16:00

Keynote Speaker 6 (Amphi Belmahi)

Session Chairs: *S. Begum + K. Zine-Dine + N. Soudi + K. Elhandri + A. Er-rafyg + C. Lagrini + M. Bougrine + A. Ezzahout + M. El Ghmari + A. Ouacha + S. Guetibi*

Dr. SENAPATI Biswaranjan (USA). *Artificial Intelligence and Quantum Computing to support Industrial Manufacturing and Production.*

16:00 - 16:30

Coffee Break + Posters

Short Papers - Posters (Hall)

Session Chairs: K. Elhandri + A. Er-rafyg + K. Elansari + K. Enaimi + S. Ouabou + C. Lagrini + Y. Boutyour + Y. El Amrani + Z. Lamghari + M. El Amrani + O. Reda + A. Idrissi

Paper 4. Fatima Ezzahrae Naji, Abdellah Idrissi and Khaoula Enaimi. Performance Analysis of Classical and Hybrid Quantum Machine Learning Models in Supervised Prediction Tasks.

Paper 8. Hanane El Amraoui, Anouar Riad Solh and Memoussa Mylène Abe Kogara Memoussa. Machine Learning Approaches to Default Risk Prediction on Agricultural Short-Term Loans : Evidence from Côte d'Ivoire.

Paper 16. Hanie Ammari, Mohammed Ammari and Abdellah Idrissi. Design of a Multi-Grid Simulator for Decentralized Energy Networks Integrating Microgrids, Embedded AI, Blockchain and Electric Vehicle Mobility.

Paper 18. Amal El Mahraoui. LLM-Enhanced Top-K Weighted Sum: A Novel Framework for Explainable and Adaptive Recommendations.

Paper 22. Shahina Begum, Shaibal Barua, Mobyen Uddin Ahmed, Henri de Boutray and Christophe Hurter. Concepts on Quantum-Enhanced Explainable AI for Trajectory Optimization in Air Traffic Management.

Paper 23. Surya Teja Darbhamalla, Shahina Begum, Shaibal Barua and Mobyen Uddin Ahmed. Quantum Machine Learning for Optimisation: A Domain Focused Survey.

Paper 24. Abderrahim Ouza, Mohamed El Ghmary and Ali Choukri. Deep Neural Model for Accurate and Efficient Emotion Recognition.

Paper 27. Mounir El Maghraoui, Mohamed El Ghmary and Said Ziani. Privacy and Security in Person Re-Identification: Emerging Deep Learning Architectures and Methods.

Paper 32. Nouhaila Moussammi, Mohamed El Ghmary and Abdellah Idrissi. Intelligent Task Offloading in Mobile Edge Computing: A Lightweight and Energy-Aware Approach.

Paper 38. Bouchra Boulahiat, Salima Trichni and Ahmed El Yahyaoui. Next-Generation Secure Aggregation for Federated Learning: Challenges and Opportunities.

Paper 46. El Mehdi Salih. Adaptive Context Budgeting for Efficient and Secure Local RAG Pipelines: A DocBot Case Study.

Paper 51. Meryem Trabchi, Abdellah Idrissi and Fedoua Elomari. DENCLUEQ: A Hybrid Classical-Quantum Density-Based Clustering Algorithm.

Paper 54. Lamia Oualili, Hassan Echoukairi and Mohamed El Ghmary. Load balancing in edge and cloud computing: Overview of Algorithms, Applications and challenges.

Paper 76. Kawtar Ait Hammou, Mounir El Maghraoui, Mohamed El Ghmary and Fatima Haoussi. Optimization of Ground Traffic Management: Development of a Decision Support Application for Fes-Saiss Airport.

Paper 63. Mohammed Berrhazi and Anouar Riadsolh. A Real-Time Data Lakehouse Architecture for Intelligent HSE Compliance Monitoring: Integrating AI-Powered PPE Detection with Modern Data Engineering.

Paper 65. Abdelhakim AKCHOUCH. Multi-Agent Reinforcement Learning for Traffic Signal Control: Integrating LLM Coordination for Complex Scenarios.

17:30 - 18:30

Networking & End of the Conference