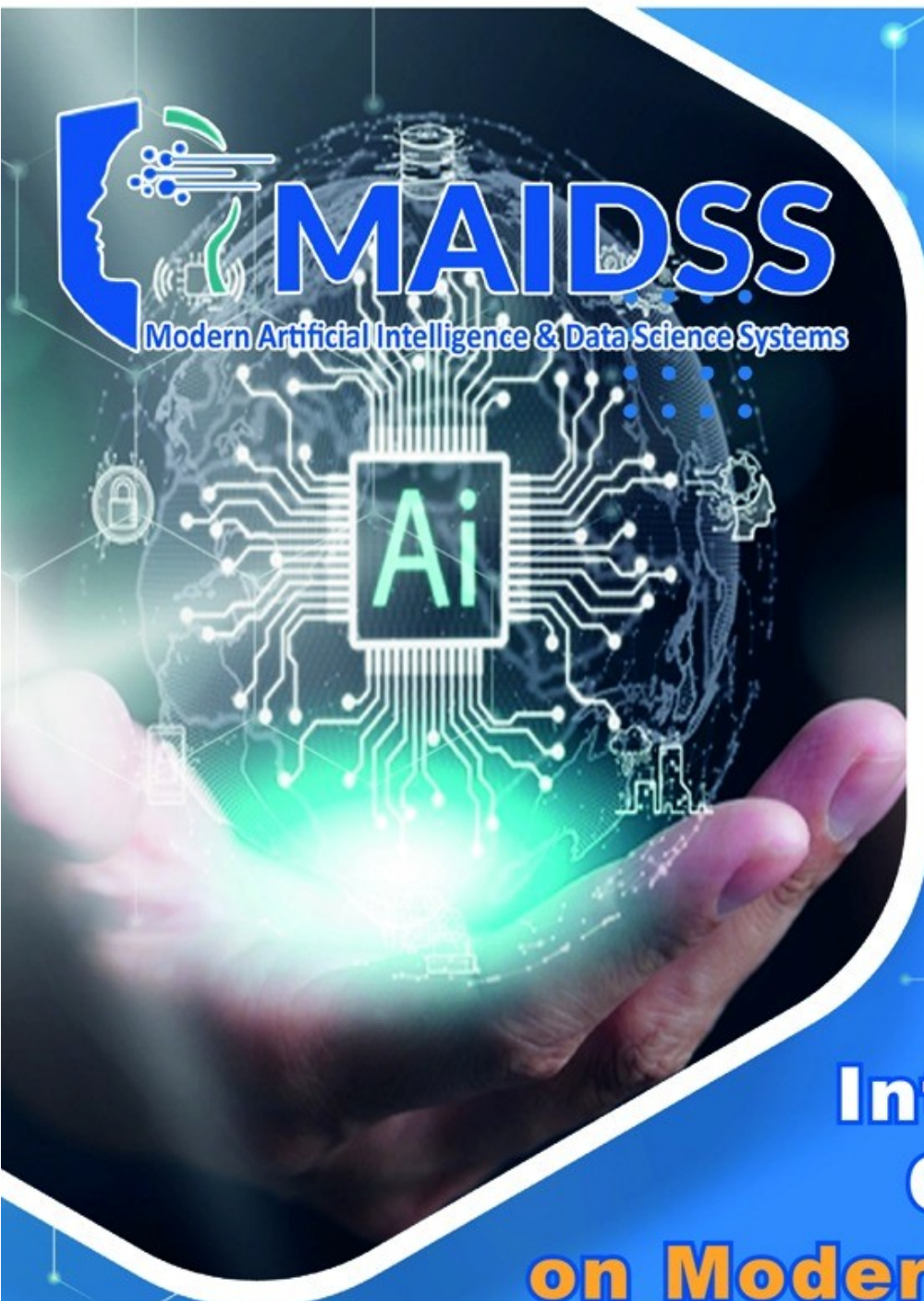




 **MAIDSS**
Modern Artificial Intelligence & Data Science Systems



International Conference on Modern Artificial Intelligence and Data Science Systems

 13-14, FEBRUARY 2024

 MOHAMMED V UNIVERSITY IN RABAT, FACULTY OF SCIENCE,
4 AVENUE IBN BATTOUTA, RABAT, MOROCCO

For more information

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PROGRAM - MAIDSS'24

Tuesday, February 13, 2024

09:00 - 09:30 **Registration**

09:30 - 10:00 **Opening Ceremony (Amphi Belmahi)**

Pr. Abdellah IDRISSEI (General Chair)

Pr. Mohammed REGRAGUI (Dean, Faculty of Science of Rabat)

Pr. Fouzia OMARY (Head, IPSS Team)

10:00 - 11:00 **Keynote Speaker 1 (Amphi Belmahi)**

Session Chairs: O. Narcis + C. Lagrini + F. Omary + O. Kathir + S. Guetibi

Pr. Yazan MUALLA (France). Introduction to Explainable Artificial Intelligence

11:00 - 11:30 **Coffee Break**

11:30 - 13:00 **(Amphi Belmahi)**

Session Chairs: Y. Mualla + S. Lagrini + H. Echoukairi + O. Kathir + S. Guetibi

11:30	Paper 23. Ouassila Labbani Narsis and Christophe Nicolle. Bridging the Gap Between Ontology Engineering and Software Engineering
11:45	Paper 7. Youness Boutyour, Abdellah Idrissi and Lorna Uden. Explainability based on Shapley values for Reinforcement Learning.
12:00	Paper 28. Manal Hilali, Abdellah Ezzati and Said Ben Alla. Evaluating the use of feature extraction and windowing using neural network in EEG-based emotion recognition.
12:15	Paper 17. Ahmed Abatal, Anass El Achhab and Mohammed Elkaim Billah. Advancements in Artificial Intelligence for Healthcare Systems: Enhancing Efficiency, Quality and Patient Care.
12:30	Paper 70. Asmae Rhanizar and Zineb El Akkaoui. A survey about Learning-based Variable Speed Limit control strategies: RL, DRL and MARL.
12:45	Paper 31. Syahida Abdullah and Roshayu Mohamad. Predicting Credit Risk of SMEs in Malaysia: Machine Learning vs Deep Learning.

11:00 - 13:00 **(Salle 3)**

Session Chairs: K. Elhandri + S. Trichni + A. Ouacha + A. Ezzahout + A. Yahyaoui

11:30	Paper 16. Hajar Majjate, Youssra Bellarhmouch, Adil Jeghal, Ali Yahyaouy, Hamid Tairi and Khalid Alaoui Zidani. Personalized Course Recommender System Based on Multiple Approaches: A Comparative Analysis.
11:45	Paper 66. Abdelmounaim Kerkri and Mohamed Amine Madani. A Hybrid Ensemble Approach Integrating Machine Learning and Deep Learning with Sentence Embeddings for Webpage Content Classification.
12:00	Paper 39. Souhaila Akrikez. Data Quality Assessment using PySpark: a case study of Redal GIS.
12:15	Paper 69. Soufiane El Asri and Khalid Zebbara. Vehicle Detection in Stereoscopic Images using Symmetry-based Approach.
12:30	Paper 53. Nadia Berrahou, Hatim Jamali, Abdelmajid El Alami, Abderrahim Mesbah, Hassan Qjidaa and Aissam Berrahou. Arrhythmia Detection in Single-Lead Heartbeat Using ECG Residual Architecture.
12:45	Paper 58. Oussama Ndama, Ismail Bensassi and El Mokhtar En-Naimi. Integrating Artificial Neural Networks and Support Vector Machine Algorithms for Advanced Credit Card Fraud Detection.

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

PROGRAM - MAIDSS'24

14:30 - 15:30 Keynote Speaker 2 (*Amphi Belmahi*)

Session Chairs: Y. Mualla + O. Narcis + F. Omary + B. Ouahidi + C. Fonlupt + K. Elhandri

Pr. Rachid ALAMI (France). *Decisional Issues for Cognitive and Interactive Robots*

Presentations (10 mn each + 5 mn Discussion)

15:30 - 16:30 (*Amphi Belmahi*)

Session Chairs: O. Narcis + C. Lagrini + S. El Hajoui + F. Omary + B. Ouahidi + K. Elhandri

15:30	Paper 56. Hayat Ouadi, Ilhame El Farissi and Ilham Slimani. Proposed Hybrid model of Focused crawler based on images containing tables.
15:45	Paper 64. Oumaima Bel Moudden and Cyril Fonlupt. A re-assessment of Code2Vec.
16:00	Paper 27. Lahcen Abidar, Ikram El Asri, Dounia Zaidouni and Abdeslam En-Nouaary. Evaluating Customer Segmentation Efficiency via Sentiment Analysis: An E-commerce Case Study.
16:15	Paper 21. Samira Boudaa, Anass El Haddadi and Tarik Boudaa. Semantic Similarity between Arabic Questions using Support Vector Machines and Hungarian Method.
16:15	Paper 42. Khaireddine Bacha and Mounir Zrigui. A Multi-Agent Approach for Intelligent and Cooperative Learning Systems.
16:30	Paper 43. Khaireddine Bacha and Mounir Zrigui. Morphosyntactic meaning of Arabic words by the deterministic finite state automaton system.

15:30 - 16:30 (*Salle des Actes*)

Session Chairs: S. Trichni + H. Benaboud + A. Ouacha + M. El Ghmary + H. Echoukairi + A. Bouhouch

15:30	Paper 3. Slama Hammia, Anas Hatim, Abdelilah Haijoub and Ahmed El Oualkadi. Comparative Analysis of Simultaneous Localization and Mapping Algorithms for Enhanced Autonomous Navigation.
15:45	Paper 52. Ahmed Khedr, Ibrahim Attia and Amel Al Ali. EDNBC: A New Efficient Distributed Naive Bayes Classifier for Vertically Distributed Data.
16:00	Paper 54. Ahmed Khedr, Pravija Raj and Reham Mostafa. Discrete Reptile Search Algorithm-Based Clustering Technique for Flying Ad Hoc Networks.
16:15	Paper 49. Mariem Hakim, Catherine Ghosn and Razane Chroqui. What measurement scales for assessing ereputation? A systematic literature review.
16:30	Paper 63. Sara Maftah, Mohamed El Ghmary and Mohamed Amnai. Efficient Wireless Communication in Mobile Edge Computing: Channel Allocation Problem.
16:30	Paper 20. Ibtissam Assoufi, Ilhame El Farissi and Ilham Slimani. Knowledge management, decision-making and Information and Communication Technology: A Systematic Mapping Study.

15:30 - 16:30 (*Salle 3*)

Session Chairs: A. Ezzahout + M. Benkhalifa + FZ. Ziani + M. Benmamoun + A. Aitwakrim + A. Yahyaoui

15:30	Paper 37. Maryam Et-Tolba, Charifa Hanin and Abdelhamid Belmekki. An Assessment System for ML-based XSS Attack Detection Models between Accuracy Coverage and Data.
15:45	Paper 55. Mehdi Bouskri and Abdellah Idrissi. Explainable Multi-Agent Network for Multi-Classification in Small Tabular Data.
16:00	Paper 29. Iman Kodssi and Hanae Sbai. Discovered Process-Aware IoT Models through Semantic Enrichment.
16:00	Paper 1. Anass Bayaga. Leveraging Artificial Intelligence for Enhanced STEM Education.
16:15	Paper 30. Janine Olivier, Anass Bayaga and Jean Greyling. Gamification as a maths problem solving teaching strategy for AI: A South African Case Study.
16:30	Paper 34. Meryem Ec-Sabery, Adil Ben Abbou, Abdelali Boushaba, Fatiha Mrabti and Rachid Ben Abbou. Malware classification in cloud computing using transfer learning.

PROGRAM - MAIDSS'24

16:45- 18:00 *Coffee Break and Posters*

Short Papers - Posters (Hall)

Session Chairs: K. Elhandri + A. Er-rafyg + K. Elansari + K. Enaimi + S. Ouabou + M. Bouskri + C. Lagrini + Boutyour

Paper 5. Abderrahim Ouza, Ali Ouacha, Abdelhamid Rachidi, Mohamed El Ghmary and Ali Choukri. Enhancing Arabic Sentiment Analysis using AraBERT and Deep Learning Models.

Paper 9. Nouhaila Moussammi, Mohamed El Ghmary and Abdellah Idrissi. Optimization Strategies in Mobile Edge Computing Through Intelligent Task Offloading.

Paper 10. Hamid El Bouabidi, Mohamed El Ghmary, Salah Eddine Hebabaze and Mohamed Amnai. Enhancing Security in Edge Computing with RSA and Paillier Encryption Schemes.

Paper 18. Chahrazad Lagrini. Agriculture Recommendation System using Collaborative Filtering.

Paper 24. Khaoula Enaimi, Abdellah Idrissi, Abder Koukam and Jalil Abbas-Turki. A Revolution of the DENCLUE Algorithm for Clustering Data.

Paper 38. Said Ouabou and Abdellah Idrissi. Exploring the Impact of Artificial Intelligence in Education: A Comprehensive Review and Future Directions.

Paper 40. Souhaila Elhajoui. A Convolutional Neural Network System for Potato Leaf Disease Identification.

Paper 46. Fedoua El Omari and Abdellah Idrissi. Quantum Denclue Algorithm (QDA) as a new Clustering Approach within Quantum Machine Learning.

Paper 50. Soufiane Sernane and Youness Boutyour. Multi-Agent Reinforcement Learning (MARL) for Coordinating Autonomous Robots.

Paper 61. Monir Dahbi, Samir Mbarki and Rachid Saadane. Enhancing Sentiment Analysis In Moroccan Mixed Script: A Case Study of Perspectives on Distance Learning During the Covid-19 Pandemic.

Paper 65. Aicha Er-Rafyg, Hajar Zankadi and Abdellah Idrissi. Adaptive Learning with AI: Challenges and Opportunities.

Paper 67. Abderrahim Ouza, Mohamed El Ghmary, Ali Choukri and Adil Khazari. Lagrangian Insights for Optimal Modeling in Wind Energy and Hydraulic Storage Systems.

Paper 74. Mustapha El Bakai and Youness Boutyour. Creating a Customized Dataset for Financial Pattern Recognition in Deep Learning.

Paper 75. Sabrina Guetibi. Integrating Artificial Intelligence with Information Systems in Healthcare Supply Chain Management.

Paper 78. Haiba Raigat and Youness Boutyour. Advancing Knowledge Tracing with LSTM Neural Networks: A Deep Learning Approach to Student Performance Prediction.

Wednesday, February 14, 2024

10:00 - 11:00 **Keynote Speaker 3 (ONLINE)**

Session Chairs: A. Syahida + O. Narcis + C. Lagrini + F. Omary + T. Velin + A. Bayaga + S. Guetibi

Pr. Amita KOOPER (India). *Reinforcement Learning : Overview and Challenges*

11:00 - 12:00 **Keynote Speaker 4 (ONLINE)**

Session Chairs: A. Syahida + O. Narcis + C. Lagrini + F. Omary + T. Velin + A. Bayaga + S. Guetibi

Pr. Lorna UDEN (UK). *Artificial Intelligence and Neuroscience*

12:00 - 12:30 **Networking & End of the Conference**