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LA 2e ÉDITION DE LA JOURNÉE DOCTORALE DE L'ENSAM CASABLANCA

« Recherche, Sciences de l'Ingénieur et Technologie pour l'Innovation Industrielle »

12 Juin 2025

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JDEC'2025

15H00-15H15: Ouiam Kmich, Hicham Moutachaouik, Mustapha Hain
Optimization of Water Resource Management Using Artificial Intelligence: A Review

15H15-15H30: Mouataz Idrissi Khaldi, Allae Erraissi, Mustapha Hain, Mouad Banane
Data Preprocessing and Classification: A Review of Methods and Their Influence on Model Performance

15H30-15H45: Korota Arsène COULIBALY, Mohamed HAMLICH
Hybrid Distributed Intelligence for LoRaWAN Networks, Collaborative Local Multi Agents Systems and Central LLM Supervision Synergy for efficient IoT applications

15H45-16H00: IMAICH imad, TOUATI abdelwahed, RABBAH nabila
Reverse Osmosis Desalination of Seawater: Optimization and Sustainability Aspects

16H00-16H15: Maniar Amine, Zegrari Mourad; Hamlich Mohamed
Temporal Features and Model Selection for Accurate Occupancy Prediction in Energy-Efficient Buildings

16H15-16H30: Halima SOULB
Federated Learning in Healthcare: Challenges and Research Directions

Session thématique 3 (3) : Systèmes, Modélisation et Intelligence Artificielle

Jury: Pr A. AKHIATE/ Pr. O. FANIDI / Pr. F. SEBTAOUI

14H00-14H15: HADDANE Ibtissam, HIRCHOUA Badr, MOUTACHAOUIK Hicham
AI-Driven Intrusion Detection Using the CICIDS2017 Dataset

14H15-14H30: Marouane Chriss, Mohamed Hamlich, Abdelwahed Elmoutaouakkil
Large Language Models for Surgical Robotics: A Survey

14H30-14H45: Benhafid Meriem,
Contribution to Supply Chain Modeling and the Integration of Industry 4.0 Technologies

14H45-15H00: Mohamed Benrahal, Aziz Akhiate
Learning Chemistry with Interactive Simulations: Augmented Reality as Teaching Aid

15H00-15H15: Hind Majdoub, Abdelhafid Ait Elmahjoub, Ilias Ouachtouk
Contribution to the Improvement of the Robustness of Sensor Fusion Algorithms under Extreme Weather Conditions

15H15-15H30: Hanane Ouamer, Fayçal Fedouaki
Digital Twins for Supply Chain Optimization: A Systematic Review and Conceptual Framework

15H30-15H45: Bouchtib Hicham, Karboub Kaoutar, Hamliche Mohamed
Cooperative LLM-based Multi Agent Systems (MAS) integrated with Knowledge Graph (KG)

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15H45-16H00: Boumahdi Abderrazak, Zegrari Mourad, Azmi mohamed
Feature Selection for Explainable Artificial Intelligence in Cybersecurity: methodologies and application

16H00-16H15: Leila Bouchoua, Pr. Ghita Zaz, Pr. Loubna El Faquih, Pr. Latifa Fakri Bouchet
A Review of Conventional Techniques and Emerging Ultrasound Innovations for Breast Cancer Detection

16H15-16H30: Sara BAALI
Feature Selection in Gene Expression Data: A 2024 Systematic Literature Review

16H30-16H45: Ayoub DRISSI, Anwar MEDDAOUI
Predictive Maintenance through Artificial Intelligence Models: Advanced Models using deep learning techniques and Industry 4.0

Session thématique 4 : Optimisation et Contrôle Industriel

Jury: Pr. M.LAARAJ / Pr. M; MOHYEDDINE/ Pr S. EL MOUMNI

14H00-14H15: Y. Arkam, O. Merroun, A. Sakim, S. Sobhi
Geometric Impact on Thermo-Hydraulic Behavior in Solar Air Heaters: A Parametric CFD Study of Sinusoidal Absorber Effects

14H15-14H30: Sofia LEMSSADDAK, Abdelhafid AIT ELMAHJOUB, Mourad ZEGRARI, Mohamed TABAA
Design, Simulation, and Implementation of Multilevel Inverters with Harmonic Reduction and Low-Component Topologies

14H30-14H45: Maryam EL Mnaouar
Digital Twins for Industrial Process Optimization

14H45-15H00: Elazzaoui Hind, Ouartassi Bajil, Lmakri Aziz
Ensemble-Based Stock Market Prediction: A Multi-Window XGBoost Approach for Enhanced Forecasting and Portfolio Optimization

15H00-15H15: Ayoub El Hanbali, Abdelali Zakrani, Said Aqil
Advanced Metaheuristics for Addressing Flow Shop Scheduling Challenges with Multiple Constraints

15H15-15H30: Aymane Harkati, Mohammed Hamlich
Multimodal LLM-Empowered time series forecasting

15H30-15H45: Bibridne Youssef, Aqil Said, Ait elfqih Mohammed
Effect of post-curing temperature on the mechanical properties of composites

15H45-16H00: Adnane Bouchra, Abdelhafid Ait Elmah-joub, Mohamed Tabaa
Towards a high-performance industrial Digital Twin: acquisition architecture dedicated to predictive bearing monitoring

16H00-16H15: Benezzine Issam, Moutachaouik Hicham
Data-Driven Insights for Enhancing Football Performance and Decision-Making

16H15-16H30: Aala Eddine Bousskoul, Ilias Ouachtouk, Abdelhafid Ait Elmahjoub
Control strategies for autonomous vehicle path tracking: PID, Pure-Pursuit, Stanley, and LQR

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Session poster 1

Jury: Pr. B. KISSI/Pr. A. JRIFI / Pr. R. BENMESSAOUD

Keltoum Baddi, Hicham Moutachaouik, Mustapha Hain
Deep Learning-Based Diagnosis of Serous Ovarian Cancer Using Medical Imaging

ZAID Fatima Ezzahra, MOUTCHOU Mohamed
AI-Based Optimization of Hybrid Renewable Energy Systems integrated Microgrids

Ammar nafir, Mohamed Hamlich
LLM empowered fake news detection

Abir Bala, Ayoub Bahnasse, Brahim El Bhiri
Toward a Bio-Inspired Approach for Cybersecurity

Bouchra Chergui, Mustapha Hain
The Dual Edge of AI: benefits and Challenges of LLMs in Scholarly Peer Review

EL HASSANI Majda, EL FAQUIH Loubna, MACHKOUR Nadia
Bridging Recommender and Expert Systems: Toward Hybrid, ML-Enhanced Intelligent Systems

NASSIB HAJAR, ABDELHAMID ZAKI
Elaboration d'un modèle intelligent basé sur l'IA pour l'optimisation multi-critères de la gestion des opérations des systèmes de production en flowshop sous contraintes du taux d'apprentissage et d'oubli du facteur humain

Y. NOURELFATH, A. TOUATI, S. BOUNOUAR
Surveillance intelligente de la qualité de l'eau basée sur des outils statistiques

Ndoubahidi Appolinaire, Ahmed El Haouzi, Abdelaziz Timesli
Pushover method applied to the evaluation of the seismic performance of structures

Y. Bounjoum, M. Ait El Fqih
Study of the mechanical behavior of concrete specimens reinforced by eco-composites

MODIBO KONE, MOHAMED AZMI
Deep Learning for Mitigating Dust-Induced False Scrap in a Computer Vision System for Dimensional Inspections: Case of

Naima Bourhym
Enhancing Agile Effort Estimation with Machine Learning Techniques

Session poster 2

Jury: Pr. M.HAMLICH / Pr. A.EL AFIA/Pr H. BENTARLA

Yassine BOUSDOG, Abdelali ZAKRANI, Said NOUH
Evolving AI aids in software debugging: A systematic literature review of taxonomies, tools, and AI-assisted debugging for anomaly detection

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