

The 7th International Conference on Informatics and Applied Mathematics IAM'24

December 4-5, 2024 GUELMA, ALGERIA

IAM'24 Program (1/2)

Wednesday, 4 December 2024 (Central Library)
09H00 – 09H30 Conference Opening
09H30 – 10H30 Keynote Speaker: Pr Youssef Agrebi Zorgani Innovative MRAS Software Sensor for Field-Oriented Control of Induction Motors with Parameter Estimation
Coffee Break and Poster Session 01 (10H30 – 11H00)
Session A. 11H00 – 12H30
Anis El Maharat Sensor Fault Detection Based on New Symbolic Covariance PCA Hamdane Mohamed Elkamel BoostSecurityDB: a new vulnerability scanning tool for online SQL databases Aicha AGGOUNE A Survey on Dataset Development Techniques for QA Systems Chaima Frihi Unveiling the Power of CycleGAN A Comprehensive Survey on Image Processing Hammou djalal rafik Detection and classification of Emotion Recognition System for TESS and Crema-d Audio Datasets Using Hybrid Deep Learning Architecture
Session B. 11H00 – 12H30
Abderraouf Khireche Study of the damage of a pipeline under internal pressure Mohamed Zakaria ZAHAF Mathematical modeling of surface roughness in end milling of treated and untreated AISI 52100 steel Okba ABID CHAREF Parameter Optimization for a Novel Dynamic Vibration Absorber with Grounded-Negative Stiffness using Chebyshev's Equioscillation Theorem
Lunch (12H30 – 14H00)
Session C. 14H00 – 15H30 (Online : https://meet.google.com/xdh-qozx-mtv)
CHIRAG JINDAL Smart PDF Query Engine: OpenAI + LangChain ATMANE HADJI A NLP and Rule-Based Approach to Extract Spatial Entities and Relationships in Arabic Text BOUAKRIF FATIMA ZOHRA Emergence detection using an fuzzy expert system in complex system ROUAIDA MESSALI ANFIS-PID-based PSO algorithm controller for chaos suppression
Session D. 14H00 – 15H30 (Online : https://meet.google.com/ujr-czwx-kha)
Radouane baghiani A Hybrid Consensus Mechanism for Enhancing Security and Efficiency in IoV Networks Noura ZEROUAL Blockchain-Based Payment System for Registration Fees in higher education SAHLI NABIL Smart Predictive Maintenance for Energy System performed by Artificial Intelligence ATMANE HADJI Sentiment Analysis of Digital Currency Discussions: A Machine Learning and Ontology Approaches
Coffee Break & Poster Session 02 (15H30 – 16H00)

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THURSDAY, 5 December 2024 (Central Library)
09H00 – 10H00 Keynote Speaker: Pr Ahmed Rebai (Online) Applications of Transforming Banking in emergent markets: The Power of NLP in Financial Services
Coffee Break & Poster Session 03 (10H00 – 10H30)
Session A. 10H30 – 12H00 (Online: https://meet.google.com/czm-zefs-qzx)
Dranoel Flores An Internet of Things Based-Revolutionizing Vending Machine System with Solar Panel and Conversational AI Assistance OUSSANE SAKINA Routing with QoS and Fault Tolerance in WBAN: The HEALTH Protocol Bouhaouche Ibtissem A Knowledge Graph-based Approach for Business Processes Integration in Smart Grids Farid Boumaza Binary Grey Wolf Optimizer for Mapping Real Time Applications on MPSOCs Architecture Milles Abdessmad Optimal tuning of Hybrid Photovoltaic-Battery Systems Using Tilted Integral-Derivative Control Strategy
Session B 10H30 – 12H00 (Online: https://meet.google.com/itz-sdrw-itp)
MERATI Medjeded Brain Tumor Segmentation Using a Dual-Branch U-Net Model: Analysis and Comparison Ferdi Ahmed Yassine Overview of Current Trends in Machine Learning Approaches for EEG-Based Brain Computer Interface Applications Mohamed Zerouali A New Subband Set-Membership Fast NLMS (SB-SM-FNLMS) Adaptive Algorithm Tchantchane Zahida Parallel computing for 3D Delaunay triangulation of non-uniform cloud points Sobhi Ibrahim and Merabti Hocine Optimizing Drilling Performance: A Machine Learning Approach to Rate of Penetration Prediction
Cloture (12H00- 12H30)
Lunch (12H30 – 14H00)

IAM'24 Posters Session

Poster Session 01 :

1. **Mixed texture descriptors for facial expression recognition**
Ouafa chebah and Anissa chebah
2. **Predictive Modeling of Hydrocarbon Flash Points Using the QSPR Approach and the MLP-ANN Technique**
Rayane Boutoutane, Yasmina Lahiouel, Mohamed Roubehie Fissa
3. **A Review of Bio-Inspired Methods for Intrusion Detection in the Internet of Medical Things**
Karima Benhamza, Hadil Merzougui and Hamid Seridi
4. **Advances in Machine Learning Methods for Automated Pediatric Epilepsy Seizure Detection: An Overview**
Karima Benhamza, Sarra Doghmene and Hamid Seridi
5. **Towards an Intelligent Wheat Stock Management System Using Deep Learning, Ontology, and IoT**
Djakhdjakha Lynda , Harizi Rana, Bouacida Imane, and Farou Brahim
6. **The adoption of IoT and Blockchain in food supply chains**
Yehya Bouchbout, Brahim Farou, Ala Eddine Benrazek and Hamid Seridi.
7. **Analysis of the Number of Limit Cycles in Liénard-Like Perturbations of a Quadratic Isochronous Center**
Selma Ellaggoune

Poster Session 02 :

8. **Enabling Semantic Web in Smart Grids.**
Dib Amira, Halimi Khaled, Khebizi Ali
9. **Optimized LFA Algorithm for Multi-Robot Foraging**
Ouarda Zedadra, Amina zedadra, Hamid Seridi
10. **AI-Driven Decision Support System for Proactive Grain Storage Management**
Ali Benyounes, Brahim Farou, Karima Benhamza & Hamid Seridi.
11. **Blockchain-Driven Data Security in Educational Social Networks: A Secure Chain Approach**
Sirine Bouguettaya, Amina Zedadra and Ouarda Zedadra
12. **Machine learning and Deep learning methods for intrusion detection system in Smart grids**
Baaliala saida , Boughareb Jalila , Kouahla Zeineddine, Seridi Hamid
13. **Advancing Federated Learning for Non-IID Arrhythmia ECG Analysis: Comprehensive Review**
Selma Aouamria, Djalila Boughareb, Mohamed Nemissi, Hamid Seridi.

Poster Session 03 :

14. **Hyperledger Fabric Blockchain in Food Supply Chain**
Ilyas ZIAYA, Brahim FAROU, Zineddine KOUAHLA, Hamid SERIDI
15. **Influence of artificial intelligence for Next POIs Prediction**
Maroua CHEMLAL, Amina ZEDADRA, Med Nadjib KOUAHLA, Ouarda ZEDADRA
16. **Advancing Cybersecurity with LLMs: A Comprehensive Review of Intrusion Detection Systems and Emerging Applications**
Djallel Hamouda, Mohamed Amine Ferrag, Benhamida Nadjette, Seridi Hamid.
17. **Improved Electric Load Prediction with Transfer Learning and Temperature Data**
Rania Farah, Brahim Farou, Zineddine Kouahla, Hamid Seridi
18. **AI-Driven Solutions for Plant Disease Detection: Advancements in Deep Learning Approaches**
Imane Bouacida, Brahim Farou, Lynda Djakhdjakha, Hamid Seridi
19. **Conformable fractional Hermite-Hadamard type inequalities for functions whose second derivatives are S-preinvex**
G. Rebiai
20. **Tree-Based Structure for Time Series Data Management in Smart Grids**
Brahmia Abdelbacet, Zineddine Kouahla, Brahim Farou, Hamid Seridi, Ala Eddine Benrazek