

11th edition of

The International Conference on Optimization and Applications

16 – 17 October 2025

National School of Applied Sciences
Ibn Tofail University
Kenitra, Morocco



Technical Program

Thursday October 16th, 2025 (GMT+1)

08h00 - 09h00	Registration			
09h00 - 10h00	Opening Ceremony Online Link: Please click here			
10h00 - 10h30	Coffee Break			
10h30 - 11h30	Keynote Speaker 1			
11h30 - 13h30	Parallel Sessions			
	Session 1 / A	Session 2 / B	Session 3 / C	Session 4 / D
13h30 - 15h00	Lunch			
15h00 - 17h00	Parallel Sessions			
	Session 5 / E	Session 6 / F	Session 7 / G	Session 8 / H

Friday October 17th, 2025 (GMT+1)

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16h30 - 17h00	Closing Ceremony Online Link: Please click here			



Keynote Speaker 1

Prof. Dr. Luis OYONARTE ALCALA
University of Almeria, Almeria, Spain

Session Chair: Prof. Dr. Hanaa HACHIMI
Room: Red Lecture Hall "Amphi Rouge"
Online Link: [Please click here](#)



Keynote Speaker 2

Prof. Dr. Mohammed TABAA
EMSI, Casablanca, Morocco

Session Chair: Prof. Dr. Chakib EL MOKHI
Room: Red Lecture Hall "Amphi Rouge"
Online Link: [Please click here](#)

Moderated by Prof. Dr. Bouchra Bouklata



SCAN ME !

IEEE Conference Record: #66896



Session 1

Chairs: Prof. Dr. Omnia Sbai, Prof. Dr. Younes Adnani, Prof. Dr. Adnane Addaim
Prof. Dr. Chaimaa Kissi, Prof. Dr. Mehdi Ajana El Khaddar

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18	Farhan Youssef, Hajmer Zineb, Lamaamar Oumaima, Ait Madi Abdessalam / Arabic Sign Language Recognition using MediaPipe and Deep Neural Network
28	El Mhamdi Oussama, Semma Elalami, / Numerical Study of Heat Diffusion in a Heterogeneous Cavity using Lattice Boltzmann Method

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Prof. Dr. Said Idrissi, Prof. Dr. Youssef Gahi

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51	Naitali Amal, Ridouani Mohammed, Salahdine Fatima, Kaabouch Naima / Hybrid Deepfake Detection Using ResNet50 and Vision Transformer for Enhanced Feature Extraction
57	Belarhza Samya, Boudi El Mostapha / Maximum Stress and Shared Load Distribution Analysis on the Profile of Spur-Corrected Gear Pairs in Contact
60	Elouataoui Widad, Gahi Youssef / Rethinking Big Data Value Chains: A Comparative Framework Across Hadoop, Modern, and Cloud Stacks

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Prof. Dr. Soufiane Belhouideg, Prof. Dr. Maria Zemzami

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37	En-Nabety Loubna, Boudi El Mostapha / Numerical Simulation of Turbulent Flow Through A Wastewater Bar Screen
41	Sadraoui Youssef, Er-ratby Mohamed, Kadiri Moulay Saddik, Kobi Abdessamad / Advanced Reliability Analysis of System's Components through Parametric Modeling and Optimal Distribution Selection

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63	Rhorba Fadwa, Allaki Driss, Dahchour Mohamed / Metaheuristic-Based Task Assignment and Scheduling to Minimize Coordination Risks in Modular Software Projects
66	Mabileau Clement, Horchani Leila / A Stochastic Model for the Bike-sharing Repositioning Problem
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85	Rhandari Oumaima, Soukaina Bakkass, Khomsi Driss, Semlali Aouragh Hassani Naoual / Freezing Desalination : A Bibliometric Study of Trends in Emerging Technologies.
87	Aabadi Fatima, Ben Maïssa Yann, Dahmouni Hamza, Tamtaoui Ahmed / Optimizing Power Forecasting with ACO-Tuned BiGRU Neural Networks.
88	Essousy Youssef, Ferradi Mohammed Khalil / Outer-Iterative Approximation of Semidefinite Programming for Limit Analysis

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146	Ihiya Assma, Ouazzani Chahdi Bahia , Douzi Samira , Ouahidi Bouabid / Hybrid Graph-Convolutional Architectures for Diabetic Retinopathy Screening: The SCG-ARMA-EfficientNet Framework
147	Faiz Mohammed Idriss, Jourani Reda / Analysis of the Impact of Datasets Design on the Training of Agricultural Products Classifiers
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225	Baqqal Imane, El Bouzekri El Idrissi Adiba, Alaoui Belghiti Amine / Review of Challenges and Opportunities in Vehicle Routing for Hydrogen Transportation Logistics
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14	Izouaouen Zakaria, Izouaouen Zakaria, Kharmoum Nassim, Ziti Soumia / Federated Intelligence in Immersive Technologies: Systematic Review of Privacy, Agents and Metaverse
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39	Ait-Fathe Doha, El Massari Hakim, Ahnnaou Khalid, Hakim Abdelilah, Gherabi Noredine / Accident Severity Prediction Using a Voting Classifier and Optuna Based Optimization
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53	Hassoun Zakaria, Ait Kerroum Mounir, Aattouchi Issam / Enhanced ECG Classification Using Deep Convolutional Neural Networks
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150	Bouali Aymane, El Madmoune Yassir, El Ouariachi Ilham, Zenkouar Khalid, Zahi Azeddine / Discrete Orthogonal Moments-Based Deep Clustering: A Racah Polynomials and Cauchy Distribution Approach
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140	Nouna Assia, Nouna Soumaya, Tammouch Ilyas, Elouafi Abdelamine. / Hybrid Deep Learning for Hyperspectral Imaging: Merging 1D and 2D CNNs for Enhanced Land Cover Mapping
141	Tammouch Ilyas, Elouafi Abdelamine, Nouna Soumaya, Nouna Assiya / Modeling the Academic Impact of Early ICT Exposure: A Cross-National Study Using Pooled Variance Optimization
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215	Kerkaa Soukayna, Jellid Kawtar, Mazri Tomader / Toward Secure and High-Performance Blockchain Integration in the Internet of Vehicles: A Layered Architecture Based on Hyperledger Fabric

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230	Khaichabi Latifa, El Madani Saad, Youlyouz Ibtissam, Marfak Abdelghafour / Towards an Overview of Artificial intelligence in Healthcare
234	Hasni Anwar, El Fadil Hassan, Lassioui Abdellah, El Asri Yassine, El Ancary Marouane / Precise Induction Motor Parameters Identification for Robust Electric Vehicle Cruise Control Using dSPACE 1104
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34	Elattar Sofi zineb, Aouraghe Ibtissame, Khaissidi Ghizlane, Mrabti Mostafa, Belahsen Faouzi / Cluster-Based classification of Multiple Sclerosis Patients: "Identifying Gait Biomarkers"

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