

2025 International Conference on Research in Computing at Feminine (RIF 2025)

**Constantine, Algeria
8-9 December 2025**

IEEE Catalog Number:
ISBN:

CFP258AU-POD
979-8-3315-6985-3



Copyright © 2025, IEEE

All Rights Reserved

Copyright and Reprint Permissions:

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP258AU-POD
ISBN (Print-On-Demand):	979-8-3315-6985-3
ISBN (Online):	979-8-3315-6984-6

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA

Phone:	(845) 758-0400
Fax:	(845) 758-2633
E-mail:	curran@proceedings.com
Web:	www.proceedings.com

TABLE OF CONTENTS

Generative Flow Networks for DAG-Aware Multi-Objective Task Scheduling in Edge-IoT Systems	1
<i>Imene Ayat, Djamilia Mechta, Saad Harous</i>	
Optimizing Trust and Performance in Cloud Service Composition Using Simulated Annealing	9
<i>Rima Cheraitia, Aissam Belghiat, Youcef Gheraibia</i>	
Towards a Distributed Processing Approach for SPARQL Queries on Spark Using an RDF Graph-Oriented Model	17
<i>Siham Benhamed, Ahlem Chalabi</i>	
FGSM Based Adversarial Attacks in Robust Machine Learning: A Review	25
<i>Djawhara Benchaira, Foudil Cherif</i>	
Tabular Data into Images techniques for CNN to enhance Intrusion Detection Systems	33
<i>Zahia Benamor, Zianou Ahmed Seghir, Mounir Hemam</i>	
Cyber Threat Detection in IIoT and IoMT Using DNN-GRU with Multi-Head Attention	41
<i>Afrah Gueriani, Hamza Kheddar, Ahmed Cherif Mazari</i>	
Fine-Tuning Transformers and LLMs for Fake News Detection in Algerian Dialect	49
<i>Meriem Sellami, Djihad Arrar, Raid Nedjm Eddine Dekkar, Mohamed El Amine Bouchareb, Nadjat Kamel</i>	
Enhancing Healthcare with Generative AI: A Hybrid GAN-Diffusion Approach for Medical Image Augmentation	56
<i>Abdallah Amirat, Hafed Zarzour</i>	
Data-Centric AI for MOOC Sentiment Analysis: Transformer-based Hybrid Target Augmentation	63
<i>Wafa Ghemmaz, Mohamed Madassi, Ferhat Boulahia, Imed Eddine Talhi, Maroua Bouzid</i>	
FPGA Implementation for AES Security in Mobile Phones on ARM Process	70
<i>Aziza I. Hussein, Hanouf Alolyan, Dana Bamakhsh, Ruhana Amin, Yara Muqaybil, Sara M. Hassan</i>	
Advanced LPV-MPC for UAV Control Using Particle Swarm Optimization	77
<i>Abib Mohammed Hamza, Mesmoudi Asma</i>	
Beyond One-Size-Fits-All: Psychology-Informed Personalized SRL Product Design	86
<i>Amal Kerrouche, Abdelkader Ouared, Abdelhafid Chadli</i>	
Deep Learning Approaches for Detecting Rumors on Social Platforms: A new Detection Model	95
<i>El Yazid Gueddoudj, Abdelouahab Attia, Azeddine Chikh, Ghizlane Khababa</i>	
Towards Automated Bias Testing Support for Educational Decision-Makers	102
<i>Sabrine Rached, Abdelkader Ouared, Abdelhafid Chadli</i>	
Educational Data Mining to support the Design of AI-Powered Tutoring Systems	110
<i>Ghada A. El Khayat, Lilia Cheniti-Belcadhi, Mohamed El Hadi Benelhadj</i>	
A Personalized Q-Learning Model for Optimizing Anesthetic Dosing Based on Patient Risk Profiling	116
<i>Kenza Benmounah, Chaker Mezioud</i>	

Efficient Link Prediction in Social Networks Using a BBOA-Inspired Heuristic and Similarity-Based Machine Learning	125
<i>Djihad Arrar, Nadjat Kamel, Saad Harous</i>	
A Comprehensive Review on Explainable Multimodal Deep Learning for Personalised and Clinically Adaptive Diagnosis	133
<i>Roumeissa Sekhri, Mohamed Nadjib Boufenara, Zizette Boufaïda</i>	
Segmentation and Detection of Diabetic Retinopathy Lesions: An Overview	143
<i>Lila Oudjoudi, Dalila Benboudjema</i>	
Collaborative Multi-Agent Approach for Training and Decision-Making in ECG Beat Classification	151
<i>Souraya Hamida, Maroua Grid, Souad Bouaïcha</i>	
Dataset-based benchmarking with custom CNN and transfer learning for sports and rehabilitation fatigue recognition	157
<i>Rihab Kaci, Fouzi Lezzar, Seif Eddine Mili</i>	
Integrating Laboratory and Clinical Perspectives for AI-Based Prediction of Chronic Kidney Disease	165
<i>Hiba Abdelmoumène, Lynda Djakhdjakha, Ilyas Guettaf</i>	
Evaluation of Transformer and Convolutional Neural Networks for Autoimmune Skin Diseases	171
<i>Laourari Roumeissa, Sabba Sara, Zerabi Soumeïya</i>	
An Edge-AI Adaptive Color Recognition System for Color Vision Deficiency: Simulation, Feedback, and Lightweight Deep Learning	177
<i>Sellam Aya, Bendjillali.Ridha.Ilyas</i>	
Semantic-Aware REST Service Composition: An Integrated Framework Using RDFS Schema and AI-Driven Discovery	182
<i>Adel Belbekri, Wissem Ouarroudj, Fouzia Enchikha</i>	
Trace-Aware LSTM Model Checking for Safety-Critical Systems	190
<i>Chaker Nasri, Ahlem Ben Younes, Leila Ben Ayed</i>	
Dataset Fusion and Multi-Task Learning for Robust Wheat Grain Storage Monitoring: A Survey	194
<i>Djakhdjakha Lynda, Abdelmoumène Hiba, Bouacida Imane, Farou Brahim</i>	
Machine Learning Solution for Drug Dosage and Anomaly Correction in Nanorobot Cancer Therapy	199
<i>Rayene Meghlaoui, Rostom Mennour, Lyès Mellal, Ilham Kitouni, Antoine Ferreira</i>	
Snakes in the Spectrum: Deep and Graph Reinforcement Learning Optimizers for Cognitive Radio Networks	204
<i>Haider Farhi, Abderraouf Messai, Tarek Berghout</i>	
Electronic Sentinel Networks for Intelligent Environmental Management: Prediction of Rainfall, Water Need, and Adjusted Irrigation	210
<i>Aya Bouchaar, Salheddine Sadouni, Skander Aris</i>	
When AI Speaks French: A Case Study from an Algerian University	215
<i>Lilia Boumendjel</i>	
Ontology-Driven Dynamic Learner Profiling: Towards Fluid Learning	221
<i>Samia Bousalem, Massinissa Chelghoum, Naila Marir, Fouzia Benchikha</i>	

Towards a High-Level Ontological Approach for Enterprise Stakeholder Representation	226
<i>Sara Chelbi, Nora Taleb</i>	