

The International Conference on
Intelligent Systems and Patterns Recognition

ISPR'2024



Istanbul, Turkey
26-28 June 2024

TECHNICAL PROGRAM

Wednesday 26th June 2024

08:00 – 08:45	Reception of the participants
08:45 – 09:00	Opening Ceremony
	Session A : chairs : Pr. Johan DEBAYLE, Dr. Priyanka C. Bhatt, Dr. MEkhaznia Tahar
09:00 – 09:30	Keynote 1: “Pattern Recognition and Image Analysis of Granular Media”, Johan DEBAYLE

09:30 -09:45	"Photovoltaic Cell Defect Classification Using Attention U-Net Image Segmentation", Ahmad Alzubi
09:45 -10:00	"Using Deep Learning to Translate Algerian Sign Language to Spoken and Written Words", Abderrazak BENAROUS, Leila BENAROUS, Salim Bitam, Abdelhamid Mellouk
10:00-10:15	"Ulcerative Colitis Image Classification using Federated Deep Learning", Mohammed Alrefai
10:15-10:30	"Explainable Artificial Intelligence Approach to Predict Student Entrepreneurial Competency", Priyanka C. Bhatt, Vinayak A. Drave, Yu-Chun Hsu, Kuei-Kuei Lai
10:30-10:45	"Accelerating Traditional Object Detection Methods on Sophisticated Embedded Systems", Kamal Sehairi, Abdelkader Bouhafes, Ibtissam mama Boucherit, Thierry Bouwmans, Fatima Chouireb
10:45-11:00	"Novel hybrid feature selection method and globalization technique for text classification.", Sahar BOULKABOUL, Kamal Amroun, Dalila Mekhzoumi
11:00-11:15	"Underwater Image Enhancement Using Improved Waternet", OUAFA BENAIDA, Loukil Abdelhamid, Adda Ali Pacha
11:15-11:30	"Enhancing Video Interaction Accessibility for Individuals with Impairments through CNN", Taha Ali, Jawad Rasheed, Mohammed Alkrunz, Negar Sadat Soleimani Zakeri, Ravi Sekhar, Pritesh Shah
11:30-11:45	"Boosting CRM Chatbot Solutions with Flash Attention and Probabilistic Inference", Ahmet Can Günay, Muhammet Furkan Özara, Ahmet Erkan Çelik, Akhan Akbulut
11:45-12:00	"Analysis of the Reference Activity of a Sample of Academic University Members on the Uses of Artificial Intelligence in the Educational Process and Challenges of its Application.", Ahmed al hadhrami, Hamed Alyahmadi, Said Al Rashidi, Khoula Salim Al habsi, Ali Boukhalkhal
12:00-12:15	"Empowering Healthcare with Deep Learning: An Application for Early Detection of Skin Cancer", Komolafe Joseph Oluwatobi, Ikram Asghar, Muhammad Diyan, Rashiq Rafiq Marie, Sidra Saleem, Rahmat Ullah, Jawad Ahmad
12:15-12-30	"The degree of practice of English language teachers in applying artificial intelligence applications in the educational process and its challenges.", Ahmed al hadhrami, Naila ALHadhrami, Hamada saud al mughairi, Anwar Saleh Al Balushi
12:30-12:45	"Feature Extraction and Dimensionality Reduction to Evaluate Decision Tree Ensembles for Diabetic Retinopathy Detection", Chyamaa Lahmar, Ali Idri
12:45-13:00	"To Ensemble or Not: Assessing Majority Voting Strategies for Phishing Detection with Large Language Models", Fouad Trad, Ali Chehab

Session B - chairs : Pr. Fakhreddine ABABSA, Drs. Imad Reda , Minhaz F. Zibran

14:00 – 14:30	Keynote 2: “Dictionary learning for signal classification”, Dr. Imad Reda
14:30-14:45	"A Fast and Accurate High-Dimensional Clustering for Identifying Dysregulated Gene-Function", Billel KENIDRA, Mohamed BENMOHAMMED
14:45-15:00	"Efficiency Meets Resilience: Accelerating Object Detection in Embedded Environments through Compressive Sensing", Imene Bouderbab, Abdenour Amamra
15:00-15:15	"Exploiting Attackability for Effective Textual Adversarial Attacks", KHEMIS Salim, AMARA Yacine, BENATIA Mohamed Akrem
15:15-15:30	"An Automated Technique for Detecting Sinkholes from Lidar DEMs in Railway Environments", Maryem BOUALI, Muhammad Ali SAMMUNEH, Rani ELMEOUCHÉ, Fakhreddine ABABSA, Bahar SALAVATI, Flavien VIGUIER
15:30-15:45	"Air Quality Forecasting in Presence Missing Data", Zeynep Idil Erzurum Cicek, Zeliha Ergül Aydın
15:45-16:00	"Hybrid Wiener Filter and Sharpening Filter for Image De-Blurring", Nada Habeeb Nada Habeeb Nada Habeeb
16:00-16:15	"Leveraging DQN-Based Recommender Systems for E-Commerce in Smart Cities", Sana ABAKARIM, Fatima Ezzahra ZAIZI, Sara QASSIMI, SAID RAKRAK, SAID RAKRAK
16:15-16:30	"The Effect of a Weighted Mean Pooling on the Performance of Convolution Neural Network", Inas Shadoul, Abdulnasir Hossen, Mostefa Mesbah, Rami Al-Hmouz
16:30-16:45	"Advancing Systematic Literature Reviews methodology through Topic Modeling", salma mekaoui, Arsalane Zarghili, Ilham Chaker, Nikola S. Nikolov
16:45-17:00	"Revolutionizing Crop Leaf Disease Detection: A Novel Ensemble Learning Framework Using Customized EfficientNets", Nahrin Jannat, S. M. Mahedy Hasan, Minhaz F. Zibran

Thursday 27th June 2024

Session c : chairs : Dr. Jawad Ahmad, Dr. M'hamed MATAOUI

09:00 – 09:30	Keynote 3: “Application of Substitution Boxes in Image Encryption for Enhancing Security in Highly Correlated Data”, Dr. Jawad Ahmad
09:30 -09:45	"Holistic Ontology Alignment using ontologies Embeddings", Houda AKREMI, Sami Zghal
09:45 -10:00	"BA-GAN: A Boundary-Aware Generative Adversarial Network for Document Restoration", Amin Ghasemi Nafchi, Mohamed Cheriet
10:00-10:15	"Leveraging Knowledge Graphs for Paper Recommendation Systems", M'hamed MATAOUI, Haithem Bahloul, Allaeddine Ziane
10:15-10:30	"Advancements in Parkinson’s Disease Diagnosis: From Biomarkers to Wearable Technology and Machine Learning", Haris Rasees, Ahmed Mehmood, Muhammad Talha, Fazeel Abid, Tunc Asuroglu, Ravi Sekhar, Pritesh Shah
10:30-10:45	"Multimodal Video Understanding and Temporal Grounding with Large Language Model", Zubair Mohammed, Suneetha Manne, Gopi kishore reddy
10:45-11:00	"A Parameter-Free Normal Estimator on Digital Surfaces", Aude Marêché, Fabien Feschet, Phuc Ngo, Isabelle Debled-Rennesson, Isabelle Debled-Rennesson
11:00-11:15	"ReaL: Reassessing Softmax Score by Logits Distillation for Foundation Model Based Intent Classification", Gábor Szűcs, Modafar Al-Shouha
11:15-11:30	"Refining U-Net Architecture through Genetic Algorithms for Improved Skin Lesion Image Segmentation", FOUZIA EL ABASSI, AZIZ DAROUICHI, Aziz OUAARAB
11:30-11:45	"Implementation of a comparative study of convolutional neural network architectures for image blind noise elimination", Oumaima ANZAL, Najib Guessous, Youssef Ouakrim
11:45-12:00	"One-Class Convolutional Neural Network for Arabic Mispronunciation Detection", Meriem Lounis, Bilal Dendani, Halima Bahi
12:00-12:15	"A Turkish Educational Quiz Generator", Kamyar Zeinalipour, Marco Maggini, Marco Gori, Yusuf Gökbek Keptiğ
12:15-12:30	"Generation of Synthetic Image Anomalies for Analysis", David Breuss, Karel Rusý, Maximilian Götzing, Axel Jantsch
12:30-12:45	"Diabetic Retinopathy Grade Assessment using ResNetRS", Yahya Bouslimi, Dhia Elhak Bouslimi, Afef Kacem

12:45-13:00	<i>"Deep Learning Approach for Tunisian Postal Address Segmentation", Fadoua Bouafif, and Linda Abdellatif</i>
	<i>Session D : chairs : Prs. Nadeem Javaid, Khalifeh Ala, Drs. Sneha Chauhan, Hanifi MEEROUFEL</i>
14:00 – 14:30	<i>Keynote 4: "Minds and Machines: Future Perspectives of AI ", Nadeem Javaid</i>
14:30-14:45	<i>"GAN-Enhanced Deep Learning Approach for Forecasting the Potentially Toxic Cyanobacteria in Dams", Nour Djihane Amara, Dendani Nadjette, Amel Saoudi, Nabiha Nabiha, amira berrezek, Hana Khemissa</i>
14:45-15:00	<i>"Comparative study using ensemble methods and sampling techniques for imbalanced diabetes data.", Hana Khemissa, Dendani Nadjette, nabiha azizi, yasmine khedimi, Nour Djihane Amara</i>
15:00-15:15	<i>"Boosting Methods for Predicting Cyanobacteria's Potential Toxicity in Water Dams", amira berrezek, Dendani Nadjette, Amel Saoudi, Nabiha Azizi, Nour Djihane Amara</i>
15:15-15:30	<i>"Enhancing Heart Disease Prediction through Logical Analysis of Data", Sneha Chauhan, Aditi Kar Gangopadhyay</i>
15:30-15:45	<i>"A Survey on Digital Humans: Taxonomy, Challenges and Future Directions", Khalifeh, Ala</i>
15:45-16:00	<i>"Beyond Spatial: A Wavelet Fusion-based Deep Learning CAD for Skin Cancer Diagnosis", Omneya Attallah</i>
16:00-16:15	<i>"Enhancing Forest Fire Classification with Feature Selection and Machine Learning based on PRISMA Hyperspectral Data", Hanifi MEEROUFEL, Faouzi Berrichi, Mohammed Bilel Amri, Mohammed El Amin Larabi</i>
16:15-16:30	<i>"Drugs Recommender System Based on Side Effects", Amel ZIANI, Mohamed Amine Adouane, Mohamed Ayoub Delladj, Fatima Zahra Brahimi</i>
16:30-16:45	<i>"DLGPD: Using Dynamic Population Sizing for Enhanced Hotel Performance Prediction in Oman", rasha abdulwahhab, Shqran Al Mansoory</i>
16:45-17:00	<i>"Semantic Segmentation of UAV Images using SegFormer", Vlatko Spasev, Ivica Dimitrovski, Ivan Chorbev, Ivan Kitanovski</i>
17:00-17:30	<i>Closing Ceremony and Best Paper Awards</i>