



CONFERENCE PROGRAM



Email: pais2024@univ-eloued.dz

Web site: pais.univ-eloued.dz

Wednesday, April 24, 2024

08:00–09:00: Registration and Welcome (Grand conference hall)

09:00–09:30: Opening Ceremony

Quran recitation

National anthem

The Talk of the General Chair

The Talk of the representative of the IEEE Algerian section

The Talk of the dean of the faculty of Exact Sciences

The Talk of the rector of the University of El Oued

Keynote Session 1 (Grand conference hall)

09:30–10:10

Prof. Gregorio Díaz-Descalzo

Group head, RETICS, UCLM, Albacete, Spain

Title: Route Planification in Intelligent Transportation Systems

Keynote Session 2 (Grand conference hall)

10:40–11:20

Prof. Muhammad Taimoor Khan

Director of the Cyber Assurance Lab.

Reader of Computer Science at the University of Greenwich, UK

Title: Automatic Repair of Vulnerable Java Programs

11:20–12:00 (Online)

Google Meet Link: <https://meet.google.com/cxu-pazj-ceh>

Prof. Abbas Amira

Dean of the College of Computing and Informatics at the University of Sharjah, UAE.

Title: Transforming Health and Energy with Deep Learning and Advanced Data Representation

(Break (Photo session & Coffee 10:10–10:40)

Lunch :12:00-13:30

Wednesday, April 24, 2024

Four parallel On-site Sessions — 13:30-15:00

ONSITE SESSION 1 (Room 1: Médiathèque hall)

Chairs: Prof. Abdelkader Laouid, Prof. Senoussi Mohammed, Prof. Bendjenna Hakim

13:30–13:45	Adel BERHOUM, Mohammad Charaf Eddine MEFTAH, Abdelkader LAOUID, Khaled CHAIT, Mostefa KARA	Using Transformers to Classify Arabic Dialects on Social Networks.
13:45–14:00	Abderrazak KHEDIRI, Hamda SLIMI, Ayoub YAHIAOUI, Makhlouf DERDOUR, Hakim BENDJENNA	Enhancing Machine Learning Model Interpretability in Intrusion Detection Systems through SHAP Explanations and LLM-Generated Descriptions
14:00–14:15	Mohammed Elbachir YAHIAOUI, Makhlouf DERDOUR, Mohamed GASHI, Mohammed Mounir BOUHAMED, Abdelilah KOUZOU	Federated Learning for Multi-institutional on 3D Brain Tumor Segmentation
14:15–14:30	Charaf Eddine GHENAI, Mohamed GASHI, Hakim BENDJENNA, Meriem BOULECHFAR	Osteosarcoma Pathological Classification using Statistical Features
14:30–14:45	Hazem BENSALAH, Abdelkamel BEN ALI, Abdennacer KHELIFA	The KD-EGATS algorithm: A way for Optimizing Data Replication with Kruskal-Dijkstra and Enhanced Genetic Tabu Strategy
14:45–15:00	Adil MERABET, ALIOUA Ahmed	REED-Based Scheme to Revoke Access in Electronic Health Records Sharing Systems

ONSITE SESSION 2 (Room 2: LAB1)

Chairs: Dr. Ben Ali Abdelkamel, Prof. Djerbi Rachid, Prof. Meraoumia Abdellah

13:30–13:45	Mohamed El Amine KHERAIFIA, Abdelatif SAHRAOUI, Makhlouf DERDOUR	Blockchain-Driven Adaptive Streaming for IoT: Redefining Security in Video Delivery
13:45–14:00	Mohamed Rayane LAKEHAL, Hassiba NEMMOUR, Youcef CHIBANI	Fusion of Deep Features for Yellow Rust Severity Estimation in Wheat Leaves
14:00–14:15	Brahim TAOUSSI, Mohamed Abderaouf DAMANI, Sidi Mohammed BOUDIA	Seasonal ARIMA and LSTM Models for Wind Speed Prediction at El-Oued Region, Algeria
14:15–14:30	Malika ABID, Mohammed kamel BENKADDOUR, Mohamed BENOUI	Federated Learning and Convolutional Neural Networks for Intrusion Detection Systems
14:30–14:45	Islem TBOUB, Amar AISSANI, Fatima MERAZKA	A Queuing Model for Software-Defined Networking in Cloud and Multi-Controller Environments
14:45–15:00	Sakina KAHAL, Lila MEDDEBER, Tarik ZOUGUI	Improved Skin Lesion Segmentation and Classification using Hierarchical Deep Attention Architectures.

ONSITE SESSION 3 (Room 3: LAB2)

Chairs: Prof. Meftah Mohammed Charaf Eddine, Dr. Slimane Oulad Naoui, Prof. Laimeche Lakhdar

13:30–13:45	Chams Eddine FATHOUN, Kamel ABADA, Walid Aymen AICHOUICHE, Soltane MERZOUG	Time Series Fusion for Smart Heart Alert: Enhancing Cardiac Arrest Prediction with Neural Networks
13:45–14:00	Islam ASHHADUL, Farida MOHSEN, Shah ZUBAIR, Samir Brahim BELHAOUARI	Introducing Novel Radon Based Transform for Disease Detection From Chest X-Ray Images
14:00–14:15	Anouar KHALDI, Belal KHALDI, Mohamed BEN BEZZIANE, Khaled HEBBACHE, Samir GUEDIRI	SE-Half-UNet: Accurate and Low-cost Retinal Vessel Segmentation from Fundus images
14:15–14:30	Okba BEKHELIFI, Nasr-Eddine BERRACHED	Benchmarking Deep Learning Optimizers for the classification of Event-Related Potentials based Brain-Computer Interface EEG data
14:30–14:45	Toufik DJELLIOUT, Hassina ALJANE	Multi-CNN Model for Multi-Classification of Cultural Heritage Monuments
14:45–15:00	Mohamed Farid BENLAMNOUAR, Yazid LAIB DIT LAKSIR, Tahar SAADI, Nabil BENSALAH, Riad BADJI	Modeling and optimization of mechanical characteristics of additively manufactured ABS sandwich structure by using response surface methodology

Wednesday, April 24, 2024

13:30-15:00 — Four parallel Online Sessions

ONLINE SESSION 1 (Room 5)

Google Meet Link: <https://meet.google.com/xhu-mwbt-gyb>

Chairs: Dr. Bali Mouadh, Dr. Benmachiche Abdelmadjid, Dr. Betouil Ali Abdelatif

13:30–13:45	Fatima HALOUA, Messaoud ABBAS, Rachid DJERBI, Mohammed Mounir BOUHAMED	Formal Modelling and Implementation of Clark-Wilson Security Policy with FoCaLiZe
13:45–14:00	Karim BENAMARA, Riad SAIDI, Tarek BENTAHAR, Hanane DJELLAB, Nada CHERRID	Comparison of CTR-OFB Modes for AES-256-based InSAR Interferogram Encryption with a GEPKE Key Generator
14:00–14:15	Tarek BOUZID, Noureddine CHAIB, Mohamed Lahcen BENSALAH	Towards exploiting custom equipped drones for enhanced slice service delivery in 6G
14:15–14:30	Faiza BENMENZER, Rachid BEGHADAD, Alaa Eddine KHALFOUNE	Cutting-Edge Broad Learning with Flexible Privacy Mechanisms for Detecting Malicious Behaviour
14:30–14:45	Rahima BOUKERMA, Bachir BOUCHEHAM, Salah BOUGUEROUA	Optimized Deep Features for Colon Histology Image Retrieval
14:45–15:00	Boudjemaa BOUDAA, Ilias Sid Ahmed MAKBOUL, Mohamed Ali GAFOUR, Sara MELISSA AITARAB	Enhancing Session-Based Recommendation with Lossless Gated Graph Neural Networks

ONLINE SESSION 2 (Room 6)

Google Meet Link: <https://meet.google.com/umr-kqnf-zif>

Chairs: Dr. Othmani Samir, Dr. Oussama Kamel

13:30–13:45	Boudjemaa BOUDAA, Kamel ABADA, Walid Aymen AICHOUICHE, Ahmed Nabil BELAKERMI	Advancing Plant Diseases Detection with Pre-trained YOLO Models
13:45–14:00	Abdellah MOHAMED SALEH, Hanane DJELLAB, Mohamed LASHAB, Oumaima ALLAOUA	Design and optimization of Microstrip Patch Antenna at 28GHz for 5G wireless applications
14:00–14:15	Zina OUDINA, Makhlouf DERDOUR, Ahmed DIB, Mohammed Mounir BOUHAMED	Empirical Analysis of the Security Threats and Risks that Drones Face, Represent, and Mitigation
14:15–14:30	Brahim FERIK, Lakhdar LAIMECHE, Abdallah MERAOUAIA, Abdelkader LAOUID, Khaled CHAIT, Muath ALSHAIKH	A Blind Digital Watermarking Approach Using Palmprint-Embedded Local Binary Patterns and Arnold Cat Map Transformations
14:30–14:45	Soumaya BOUNAIRA, Ahmed ALIOUA, Ismahane SUICI	Task offloading in the edge network of digital twins: Blockchain based trust management approach
14:45–15:00	Md Asifuzzaman Khan, Golam Sarwar, Areen Ashfaq, Kazi Sazzad Ahamed	Real-time Reckless Driving Detection System on a low-level computing platform: Insight from a Developing Nation

ONSITE SESSION 4 (Room 4: LAB3)

Chairs: Dr. Beggas Mounir, Prof. Rezeg Khaled, Prof. Laouar Mohamed Ridda

13:30–13:45	Remadnia Ouahiba, FAIZ MAAZOUZI	Advancements in Sentiment Analysis for the Algerian Dialect: A Comprehensive Review
13:45–14:00	Abdellah MOHAMED HADJKOUIDER, Yesin SAHRAOUI, Chaker Abdelaziz KERRACHE, Ahmed KORICHI	MCDM: an ML-based Multi-Criteria Decision Making solution for UAVs Service Selection
14:00–14:15	Abdelghani GUERRAD, Abdelatif SAHRAOUI, Makhlouf DERDOUR	Integration of SDN in IoT: Towards an Optimized Video Streaming Transmission Protocol: review
14:15–14:30	Mohamed BEN BEZZIANE, Yesin SAHRAOUI, Bouziane BRIK, Lina MEKKAS, Sara BOUGEURRA, Anouar KHALDI	On the Performance Evaluation of Mobility Model-Based GPSR Routing Protocol in Flying Ad hoc Networks
14:30–14:45	Saida KICHOU, Ismail BRAIRI, Mohamed Amin ESSALHI	Deep learning-based cloud services recommendation
14:45–15:00	Fouad Mir, Farid MEZIANE, Ahcene BOUNCEUR, Abdelkader LAOUID	Quantitative Scalability of Nodes and Geographical Coverage in LEACH Protocol

Wednesday, April 24, 2024

ONLINE SESSION 3 (Room 7)

Google Meet Link: <https://meet.google.com/nvm-psud-buu>
Chairs: Dr. Soltani Khaled, Dr. Abdennour Boulesnane

13:30-13:45	Indu Singh, Tanvi Singh, Sunaina, and Shruti	Harris Hawk Optimized CLAHE and Novel Score Level Fusion of Lightweight CNNs for Multimodal Biometric Recognition
13:45-14:00	Nour El Houda DEHIMI, Zakaria TOLBA	Attention Mechanisms in Deep Learning: Towards Explainable Artificial Intelligence
14:00-14:15	Doukifli BOUKRAA, Hamza SELLAMNA, Yacine CHIDEKH	Enabling Self-Service OLAP on NoSQL Data Lakes
14:15-14:30	Sarra CHERBAL	Blockchain-Enabled Authentication and Key Exchange for Enhancing User Privacy and Data Confidentiality in Smart Homes
14:30-14:45	Ines Adjeroud, Sarra CHERBAL, Chahrazed BENREBOUH, Hamza BAARAOUI	Authentication scheme based on blockchain and Proof-of-Work for IoT
14:45-15:00	Jiaxuan Zheng, Jiayu Wu, Shuwen Xu, Sidan Du, Yang Li	Disparity Distribution Equalization: An Effective Data Enhancement for Stereo Matching

ONLINE SESSION 4 (Room 8)

Google Meet Link: <https://meet.google.com/vjw-bmqy-ufk>
Chairs: Dr. Khebach Mohib Eddine, Dr. Khaldi Yacine

13:30-13:45	Tahar GUERBOUZ, Akram Zine Eddine BOUKHAMILA, Djallia BELKEBIR	Lightweight Mitigation Against DIO Suppression Attack in RPL-Based IoT Networks
13:45-14:00	Naoual El Djouher MEBTOUCHE, Nadia BABA, Okba BEKHELIFI	mini-Unet GAN: Optimized GAN for Monocular Depth Estimation
14:00-14:15	Amira BENLECHEB, Ahmed-Chawki CHAOUICHE, Brahim BENABDERRAHMANE	Navigating Urban Traffic Patterns: Ensemble Stacking for Improved Travel Time Prediction
14:15-14:30	Fouzia ADJALIA, David JOPEK, Michal TAKAC, Marek RUZICKA, Seloua HADDAOUI	Simulation Analysis of Car Aerodynamics within Tunnel Environment using Deep Learning: A Comparative Architectural Study
14:30-14:45	Brahim BENABDERRAHMANE, Mohamed GHARZOU, Amira BENLECHEB	Machine Learning-Based Detection of Autism Spectrum Disorder Using Attention Mechanisms in Eye-Tracking Data
14:45-15:00	Sarra CHERFI, Ammar BOULAICHE, Ali LEMOUARI	Enhancing IoT Security: A Deep Learning Approach with Autoencoder-DNN Intrusion Detection Model

15:00-18:30: Visit

19:30: Diner

Thursday, April 25, 2024

08:00-09:30 — Four parallel On-site Sessions

ONSITE SESSION 1 (Room 1: Médiathèque hall)

Chairs: Prof. Khoulati Mohamed Kheireddine, Dr. Chaker Abdelaziz Kerrache, Dr. Ammar Boucherit

08:00-08:15	Mohamed Kamel BENBRAIKA, Samir BOUREKKACHE, Okba KRAA, Yassine HIMEUR, Khaled TELLI, Abdelmalik OUMAMANE	Simulated annealing for resource and power allocation in 5G and B5G D2D communications
08:15-08:30	Yacine BELHOCINE, Abdallah MERAOUIMIA, Hakim BENDJENNA, Ameer KHEMANE	Beyond Traditional Methods: Feature Fusion for Robust Biometric Identification
08:30-08:45	Sirine BOUGUETTAYA, Amina ZEDADRA, Ouarda ZEDADRA	Enhancing Student Learning: Automatic Support in an Educational Social Network
08:45-09:00	Soufiane Oumaima BOUFALDA, Abdelmadjid BENMACHICHE, Majda MAATALLAH, chaouki CHEMAM	An Extensive Examination of Varied Approaches in E-Learning and MOOC Research: A Thorough Overview
09:00-09:15	Mohamed Nadhir ABID, Mounir BEGGAS, Abdalkader LAOUID	Reinforcement Learning Approach for IoT Security using CyberBattleSim: A simulation based approach

ONSITE SESSION 2 (Room 2)

Chairs: Dr. Naoui Mohamed Anouar, Prof. Bouramoul El Krim, Prof. Ben Ahmed Khelifa

08:00-08:15	Aicha HAFID, Riadh HOCINE, Lahcene GUEZOU, Mohamed Ridha ABDESSEMED	Centralized and Decentralized Federated Learning in Autonomous Swarm Robots: Approaches, Algorithms, Optimization Criteria and Challenges
08:15-08:30	Mohammed Abdelhadi SELAMI, Oussama Seyf Elislam HAMZI, Belal KHALDI	Improving Linear Models for Univariate Long-term Time Series Forecasting
08:30-08:45	Ahmed ARBAOUI, Abdelatif SAHRAOUI, Makhlouf DERDOUR	Network Slicing solutions for Internet of Vehicles (IoV) Networks: A Review
08:45-09:00	Khadija RAIS, Mohamed AMROUNE, Mohamed Yassine HAOUAM	Medical Image Generation Techniques for Data Augmentation: Disc-VAE versus GAN
09:00-09:15	Redouane SAIFI, Achour ACHROUENE, Hocine ATTOUMI, Lydia SOUCI	A Hybrid Feature Selection Method for Human Activity Recognition

ONSITE SESSION 3 (Room 3)

Chairs: Dr. Hamoud Meriem, Prof. Benmerzoug Djamel, Dr. Rezeg Khaled

08:00-08:15	Abdelhadi LIMANE, Farouq ZITOUNI, Aridj FERHAT, Rihab LAKBICHI	Binary Electric Eel Foraging Optimization Algorithm for Solving 0-1 Knapsack Problems
08:15-08:30	Abdelmadjid BENMACHICHE, Ines BOUTABIA, Abdelatif BETOUJIL ALI, chaouki CHEMAM	A study on the application of deep learning methods within the open classroom strategy
08:30-08:45	Abdelhakim GHARBI, Abdeljalil GATTAL, Issam BENDIB	Basic Emotion Recognition in Facial Expressions using Deep CNN
08:45-09:00	Sourour MAALEM, Hamda SLIMI, Hakim BENDJENNA	Deep Learning's Ability to Predict Chaos in a Chaotic System
09:00-09:15	Laid KENIOUA, Brahim LEJDEL, Mohamed Abdelhamid NEDIOUI	Empowering healthcare: Edge computing and ML for early heart attack detection and prevention

Thursday, April 25, 2024

08:00-09:30 — Three parallel Online Sessions

ONSITE SESSION 4 (Room 4)

Chairs: Dr. Mohamed Kamel BENBRAIKA, Prof. Talbi Hichem, Prof. Laimeche Lakhdar

08:00-08:15	Imed Eddine BOURAMOUL, Soumia ZERTAL, Makhlouf DERDOUR, Imene ZENBOUT	Enhancing IoT Security Through Deep learning and Evolutionary Bio-Inspired Intrusion Detection in IoT systems
08:15-08:30	Ankush VERMA, Geetanjali RATHEE, Chaker Abdelaziz KERRACHE	Toward Secure Consumer IoT Communications using DNA Encryption and Blockchain Technology
08:30-08:45	tariq BENAHEMED, Amina BOUROUIS, Khelifa BENAHEMED	Real-Time Aquaculture Monitoring System Using IoT Technology
08:45-09:00	Oualid MECILLI, Barkat HADJ, Farid NOUIOUA, Abdelouahab ATTIA, Samir AKHROUF	Efficient Machine Learning Approach for Diabetes Mellitus Disease Prediction
09:00-09:15	Lyna BELILIN, Maissoun GHOULZEN GHIR, Abdennour BOULESNANE	Empowering Deaf Community in Healthcare Communication: ID-CNN-Based Algerian Sign Language Recognition System

ONLINE SESSION 1 (Room 5)

Google Meet Link: <https://meet.google.com/cxu-pazj-ceh>
Chairs: Dr. Bali Mouadh, Dr. Benmachiche Abdelmadjid, Dr. Betouil Ali Abdelatif

08:00-08:15	Brahim Khalil SEDRAOUI, Abdelmadjid BENMACHICHE, Amina MAKHOUL, Chaouki CHEMAM, Abdelmadjid BENMACHICHE	Intrusion Detection with deep learning: A literature review
08:15-08:30	Rafaida KHEMAISSIA, Makhlouf DERDOUR, Ala DJEDAI	Blockchain Sharding based Federated Learning Empowered with NFT-based Privacy-Preserving Model Sharing
08:30-08:45	Nour El Houda KAIBER, Tahar MEKHAZNA, Zakaria LAKHDARA	Transfer Learning-based Approach for 3D Reconstruction from a Single 2D Image
08:45-09:00	Amira CHERIET, Tahar MEKHAZNA	Intelligent optimization of computing task management in an Edge environment
09:00-09:15	Asma MERABET, Asma SAIGHI, Mohamed Abderraouf FERRADJI, Zakaria LABOUDI	Enhancing the Prediction of Colon Cancer: a Comparative Study and an Innovative Deep Learning Approach
09:15-09:30	Bouchra KHOUIMERI, Abdelhadi ABEDOU, Gaham MEHDI, Afaf AMMAR, Isra RACHED, Taqwa MEZAACHE	The development of a neural network surrogate model for estimating energy and travel time for a collaborative robot

ONLINE SESSION 2 (Room 6)

Google Meet Link: <https://meet.google.com/xzk-nyxh-gpp>
Chairs: : Dr. Othmani Samir, Dr. Khaldi Yacine

08:00-08:15	Ahmed Amine ALIANE, Nasreddine SEMMAR, Hassina ALIANE	Neural Machine Translation for the Arabic-English Language Pair
08:15-08:30	Sarra BENZEROGUE, Abdelatif SAHRAOUI, Salah MERNIZ, Lazhar KHAMER, Saad HAROUS	Exploring Multimedia Streaming Protocols in VANET: A Systematic Review
08:30-08:45	Rayene BOUNAB, Bouchra GUELIB, Karim ZAROUR	A Novel Machine Learning Approach For handling Imbalanced Data: Leveraging SMOTE-ENN and XGBoost
08:45-09:00	Chams Eddine FATHOUN, Mohamed Ridda LAOUAR, Soltane MERZOUG	Time Series Fusion for Smart Heart Alert: Enhancing Cardiac Arrest Prediction with Neural Networks
09:00-09:15	Safa BOUGHOUAL, Mohamed Ridda LAOUAR, Abderahim	Early prediction of nephropathy chronic with supervised machine learning algorithms and feature selection method
09:15-09:30	Nesreddin DAOUDI, Issam BENDIB, Mohamed AMROUNE	Applications of Machine Learning in Corrosion Detection

Thursday, April 25, 2024

ONLINE SESSION 3 (Room 7)

Google Meet Link: <https://meet.google.com/zcu-ttic-xso>
Chairs: : Dr. Soltani Khaled, Dr. Abdennour Boulesnane, Dr. Oussama Kamel

08:15-08:30	Amira BOUAMRANE, Makhlouf DERDOUR, Ahmed ALKSAS, Ayman EL-BAZ	A Transfer Learning Framework for Lung Cancer Classification Using EfficientV2-L: Generalizability Assessment
08:30-08:45	CHERIF BENALI	Comparative Analysis of Security-Focused Blockchain Architectures: Optimising Security in IoT
08:45-09:00	Nawal YALA, Nacereddine NAFAA	Deep Corrosion: Semantic Segmentation Unveiled Through Advanced Learning
09:00-09:15	Naçima MELLAL, Asma SAIGHI	Ontology population using CNN model: Application to COVID-19 diagnosis
09:15-09:30	Mohamed Rayane LAKEHAL, Hassiba NEMMOUR, Youcef CHIBANI	Fusion of Deep Features for Yellow Rust Severity Estimation in Wheat Leaves

09:30-10:00: Break Coffee and Poster session

Keynote Session 1 (Room 1: Médiathèque hall)

Google Meet Link: <https://meet.google.com/xhu-mwbt-gvb>

10:40-10:00 (Online)
Prof. Merouane Debbah
Khalifa University of Science and Technology,
Abu Dhabi, UAE
Title: Telecom GPT: The Next Big Wave in Telecommunications

10:40-11:00: Closing Session (Médiathèque hall)

11:00: Lunch

