

5th International Symposium on Informatics and its Applications 2022 Program of ISIA 2022					
Tuesday 29 November 2022	08:00 - 09:00	Registration		At Ibn El Haytham Auditorium	
	09:00 - 09:45	Opening Ceremony		At Ibn El Haytham Auditorium	
	09:45 - 10:45	Keynote I : Modélisation et Prédiction de la Structure des Protéines By : Pr. Sadek Bouroubi (USTHB, Algeria) Chair : Prof. Samir Akhrout (M'sila University, Algeria)		At Ibn El Haytham Auditorium	
	10:45 - 11:00	Coffee Break		at MM4 (MI Faculty)	
		Session 1 : Biometrics & Computer vision Chairs : Allaoua Hemmak (Univ. M'sila) & Makhlof Benazi (Univ. M'sila) Room : MM1 (MI Faculty)	Session 2 : Road Traffic Management Chairs : Chaker Abdelaziz Kerrache (Univ. Laghouat) & Abdelbasset Barkat (Univ. M'sila) Room : MM2 (MI faculty)	Session 3 : Data Mining & Modeling Chairs : Tahar Mehenni (Univ. M'sila) & Mahmoud Brahimi (Univ. M'sila) Room : MM3 (MI faculty)	Workshop
	11:00 - 11:20	Amel Benabdallah and Abdelghani Djebbari. "Biometric Individual Authentication System using High Performance ECG Fiducial Features"	Tarek Amine Haddad, Djalal Hedjazi and Sofiane Aouag. A New Deep Reinforcement Learning-Based Adaptive Traffic Light Control Approach for Isolated Intersection	Khaoula Zineb Legoui, Sofiane Maza and Abdelouahab Attia. Equilibrium Optimizer and the Henry Gas Solubility Optimization Algorithms for Feature Selection: Comparison Study	
	11:20 - 11:40	Ammar Chouchane, Mohcene Bessaoudi, Abdelmalik Ouamane and Oussama Laouadi. "Face Kinship Verification Based VGG16 and new Gabor Wavelet Features"	Sahar Smaali, Chafia Bouanaka, Samah Smaali and Khaoula Kitouni. Traffic signals control system based on intelligent recommendation	Azzouz Mahdia, Boukhedouma Saida and Alimazighi Zaia. An approach with flexible choice of model for customer churn prediction and retention help	
	11:40 - 12:00	Zakia Kezzoula, Djamel Gaceb and Nadjat Gritli. "Super-resolution of document images using transfer deep learning of an ESRGAN model"	Nedjmedine Ouennoughi and Tahar Mehenni. Analysis of road accident factors using Decision Tree Algorithm: A case study of Algeria	Amel Dembri and Mohammed Redjimi. Towards a simplified evaluation of graphical DSL Workbenches	
	12:00 - 12:20	Chekhmane Ghezala and Benali Radhwane. EEG signals analysis with support vector machine and multilayer perceptron neural network	Souad Refas, Selma Yahia, Yassine Meraihi, Dalila Acheli, Amar Ramdane-Cherif and Asma Benmessaoud. Lighting Energy Harvesting in Traffic Light-to-Vehicle Visible Light Communication	Khadidja Bouchelouche, Abdessamed Réda Ghomari and Leila Zemmouchi-Ghomari. Enhanced analysis of Open Government Data: Proposed metrics for improving data quality assessment	
	12:30 - 14:00	Lunch			
	14:00 - 15:00	Keynote II : Pattern mining : some recent results and research opportunities By : Dr. Farid Nouioua from BBA University (Algeria) Chair : Prof. Mustapha Bourahla (Univ. M'sila)		At Ibn El Haytham Auditorium	
	15:00 - 15:20	Poster Session + Coffee break		at MM4 (MI Faculty)	
		Session 4 : Artificial Intelligence & Deep Learning Chairs : Nassereddine Mouhoub (Univ. M'sila) & Nouredine Amraoui (Univ. M'sila) Room : MM1 (MI Faculty)	Special Session : Arabic Natural Language Processing Chairs : Hassina Aliane (CERIST) & Faiza Deghmani (USTHB) Room : MM2 (MI Faculty)	Session 6 : Networking & Distributed systems Chairs : Chikouche Nouredine (Univ. M'sila) & Nouredine Chaib (Univ. Laghouat) Room : MM3 (MI Faculty)	Workshop
	15:20 - 15:40	Leila Abbad, Djallel Brahmia and Mohamed Nadir Cherfia. Study and comparison of machine learning models for air PM 2.5 concentration prediction	Attia Nehar, Slimane Bellaouar, Djamilia Mahfoud, Fatima Zohra Daoudi. A Hybrid Semantic Statistical Query Expansion for Arabic Information Retrieval Systems	Adil Bouhous. "Application of a multilayer perceptron network for the modeling of a rectangular patch antenna "	
	15:40 - 16:00	Ikram Remadna, Sadek Labib Terrissa, Siham Zroug, Ikram Maouche and Nouredine Zerhouni. Engine Remaining Useful Life Estimation via a Bidirectional LSTM Neural Network based on Principal Component Analysis	Bekhouch Abdelaali and Yamina Tlili-Guissa. Swarm optimization for Arabic word sense disambiguation based on English pre-trained word embeddings	Yessad Samira, Hamadache Smail, Siby Sory Ibrahim, Bouallouche-Medjkoune Louiza and Lahlah Souad. "Application-Aware Opportunistic Routing Protocol for Traffic violations notification in Internet of Vehicles"	
	16:00 - 16:20	Khadidja Delloul and Slimane Larabi. Egocentric Scene Description for the Blind and Visually Impaired	Siham Ouamour and Halim Sayoud. Computational Identification of Author Style on Electronic Libraries – Case of lexical features	Nourredine Oukas, Abderrezak Djouabri, Karima Arab and Mira Hellal. "A Fluid Approach To Model and Assess the Energy Level of Autonomous devices in IoT with Solar Energy Harvesting Capability"	
	16:20 - 16:40	Salma Louanas and Hichem Debbi. Residual Attention Network:A new baseline model for visual question answering	Rania Bouguesri, Khadidja Habelhames, Hassina Aliane and Ahmed Amine Aliane. Sarcasm Detection in Arabic Tweets: A comparison Between deep learning and Pre trained Transformers-based Models	Zakaria Sahraoui and Abdenour Labeled. "Methodology for fast prototyping of distributed real-time systems"	
16:40 - 17:00		Kheira Zineb Bousmaha, Khaoula Hamadouche, Nawel Cheurfaoui and Lamia Hadrich-Belguith. Subject Detection of Posts For Opinion Analysis in Algerian Dialect	Amina Khacha, Rafika Saadouni, Yasmine Harbi and Zibouda Aliouat. "Hybrid Deep Learning-based Intrusion Detection System for Industrial Internet of Things"		
Wednesday 30 November 2022	08:00 - 09:00	Registration			
	09:00 - 10:00	Keynote III : Understanding the Potential of CAVs and Autonomous UAVs in Enabling Future Cities Vision by : Dr. Soufiene Djahel from the University of Huddersfield (UK) Chair : Chaker Abdelaziz Kerrache		At Ibn El Haytham Auditorium	
	10:00 - 10:15	Coffee Break (MM4)			
	10:15 - 11:45	Session 7 : Deep Learning & CNN Chairs : Said Kadri (Univ. M'sila) & Hicham Debbi (Univ. M'sila) Room : MM1 (MI Faculty)	Session 8 : Natural Language Processing & Ontology Chairs : Taha Zerrouki (Univ. Bouira) & Belkacem Brahimi (Univ. M'sila) Room : MM2 (MI Faculty)	Workshop	
	10:15 - 10:35	Boukabouya Rayene Amina, Moussaoui Abdelouahab and Berrimi Mohamed. Vision Transformer Based Deep Learning Models for Plant Disease Detection and Diagnosis	Rosana Abdoune, Lydia Lazib and Farida Dahmani-Bouarab. Word Embeddings for a Disciplinary Tutoring System		
	10:35 - 10:55	Rached Yagoubi, Abdelouahab Moussaoui, Ali Dabba and Mohamed Bachir Yagoubi. PSCP-CNN: Protein Structural Class Prediction using a Convolutional Neural Network	Abdellah Rezoug, Ait-Dahmane Mohamed and Ahmed Bouliche. Sentiment Analysis of the Algerian Social Network Comments Using AraBERT		
	10:55 - 11:15	Adel Kermi, Hadj Cheikh Djennelbaroud and Mohamed Tarek Khadir. A Deep Learning-based 3D CNN for Automated COVID-19 Lung Lesions Segmentation from 3D Chest CT Scans	Rahima Bentrchia, Meriem Tallai and Asma Mekdour. A Deep Learning Approach to Recognize Mixed Fonts Printed Arabic Characters		
	11:15 - 11:45	Abdeljalil Chougui, Achraf Moussaoui and Abdelouahab Moussaoui. Plant-Leaf Diseases Classification using CNN, CBAM and Vision Transformer	Melissa Oussaid, Farida Bouarab-Dahmani and Nadine Cullot. Food Ontology Enrichment Using Word Embeddings and Machine Learning Technologies		
	11:45 - 12:00	Best Paper Award			
	12:00 - 12:30	Closing ceremony			
12:30 - 14:00	Lunch				