Faculty of Sciences & Technology

The IEEE Eighth International Conference on Image and Signal Processing and their Applications







Faculty of Sciences & Technology Biskra, Algeria













The IEEE Eighth International Conference on Image and Signal Processing and their Applications





Sunday, April 21st <u>08:00-08:30</u> : Registration

08:30-08:45 : Official opening

Professor Mahmoud DEBABECHE, Rector of Mohamed Khider University of Biskra, Algeria Professor Hatem GHODBANE, Dean of the Faculty of Sciences and Technology, Biskra University, Algeria

<u>08:45-09:30</u> : Plenary conference I

Chairs: Pr Mimi Malika and Pr Taleb-Ahmed Abdelmalik

Prof Habib Zaidi, Ph.D

Department of Radiology and Medical Informatics, University of Geneva Hospital, Geneva - Switzerland

Adventures in deep learning-assisted multimodality medical imaging wonderland

09:30-10:00 : Coffee Break



The IEEE Eighth International Conference on Image and Signal Processing and their Applications

- Sunday,-April-21st ------<u>10h15-12h45</u>

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Oral Session

Session : Image Processing - Room I	Session : Signal Processing - Room II
<u>Chairs</u> : Pr Zine Eddine Baarir and Pr Zaidi Habib	<u>Chairs</u> : Pr Ouahabi Abdeldjallil and Pr Amir Nakib
10h15-10h40: Aiman Younas and Hichem Felouat	10h15-10h40: Ab Waheed Lone, Ahmet Elbir and Nizamettin Aydin,
Autism Spectrum Disorder Classification Using The Most Correlated Features	Emboli Detection by machine learning algorithms using multi-level feature extraction
10h40-11h05: Kabli Fatima, Smahi Abdeldjalil and Mokhtari Mohamed	10h40-11h05: <u>Lallouani Bouchakour</u>
Localisation and detection of weld defects in patch-based radiographic images using deep learning	Spectro-Temporal Features for Robust Speech Recognition Transcoded With DSR and AMR-NB Codecs Using Deep Neural Networks (4245)
11h05-11h30: Cherifi Mohamed, Mesloub Ammar, El Korso M.d Nabil et al.	11h05-11h30: Abdelhafid Benchikh and Radhwane Benali
Dimensionality Reduction for Hyperspectral Image Classification	Using only scalp EEG to automatic diagnosis of epileptic and Non-Epileptic seizures using a hybrid dataset
11h30-11h55: Houria Latifa, Belkhamsa Noureddine, Cherfa Assia et al	11h30-11h55: Nafissa Sadi-Ahmed, Malika Kedir-Talha, M'Hamed Bellounes et al.
Alzheimer's disease classification using Diffusion Tensor Imaging	Recognition of multiple arm movements from EMG signals
11h55-12h20: Ghania Boukhlifa and Youcef Chibani	11h55-12h20: Saoueb Kerdoudi and Larbi Guezouli
A Lightweight CNN Design Based on Convolutional Autoencoder for Tomato Disease Identification	Automated Heartbeat Classification for Arrhythmia Patients Using a Deep Convolutional Neural Network
12h20-12h45: Mohamed Belmokeddem, Kamila Khemis and Salim Loudjedi	12h20-12h45: Hefaidh Hadef, Mohamed Ala Eddine Baia et al.
Machine Learning Classification for Detecting Laparoscopic Video Distortions.	Effectiveness of time-based methods for the early detection of bearing faults)



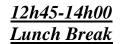


The IEEE Eighth International Conference on Image and Signal Processing and their Applications

- Sunday, April-21 st	
<u>10h15-12h45</u>	

Oral Session

Session: Telecommunication - Room III	Session: Application - Room IV
Chairs: Pr Abdelhamid Benakcha and Pr Tayeb A. Denidni	<u>Chairs</u> : Pr Nadjiba Terki and Pr Fella Achouf
10h15-10h40: Yacine Messai, Fouzia Maamri, Hanane Djellab, et al.	10h15-10h40: Khalida Mimoune, Mohamed Yacine Hammoudi et al.
Use of meta-heuristic Algorithm to optimise Ericsson propagation Model	Estimating Actuator Fault Through the Utilization of a Proportional Integral Observer
application on LTE	with Quadratic Lyapunov Functions
10h40-11h05: Cheikh Kherici, Malika Kandouci, Amel Bechikh and Aicha	10h40-11h05: Lotfi Madaoui, Malika Kedir-Talha and Oussama Kerdjidj
Benhamidi	An FPGA-Based Embedded System for Terrain Recognition Using Inertial
Impact of PON network range and laser power on GPON and XGSPON coexistence	Measurement Units
system.	
11h05-11h30: Amina Djir, Fatiha Meskine and Mohamed Larbi Tayebi.	11h05-11h30: Nedjoua Refis, Omar Chaab, Malika Mimi and Abdelkrim Benaiche.
Understanding the Influence of Fog Scattering Attenuation Models on IM/DD FSO	Quality assessment of autofocusing criteria on noisy holograms in off-axis digital
Link: Image Transmission Assessment.	holography
11h30-11h55: Dalil Beknadj, Hakim Tayakout, Mohamed Tounsi et al.	11h30-11h55: Said Bedda, Okba Kraa, Djallal Eddine Zabia, Ilyes Tegani et al.
Digital Modulation Identification in Spatial Modulation MIMO Systems.	Optimization of Passivity-Based Controller for a Hybrid Vehicle Power Source using
	the Gray Wolf Algorithm.
11h55-12h20: Khaled Telli, Okba Kraa, Yassine Himeur et al.	11h55-12h20: <u>Yassine</u> Bouafia and Larbi Guezouli
Drone-Enabled Connectivity: Advancements and Challenges in B5G / 6G Networks	Real-Time Pedestrian Detection in Hazy Weather for Surveillance Systems
12h20-12h45: Khalissa Charik, Lebbal Mohamed Redha and Fateh Larioui	12h20-12h45: Dhiya Eddine Rabia Oulahcine, Nacerredine Lassami, Mustapha
Proposed a novel design of all optical AND/NAND logic gatesusing the nonlinear	Benssalah et al.
Kerr effect	Diagonal Unloading Algorithm for Mini-Drone Localization Using Circular
	Microphone Array





The IEEE Eighth International Conference on Image and Signal Processing and their Applications

- Sunday,-April-21st -

14h00-14h45

Plenary conference II Chairs : Pr. Zine-Eddine Baarir – Pr. Mustapha Merah

Professor Amir Nakib, Ph.D

Laboratoire LISSI, University Paris Est Créteil, Paris-France

Inference acceleration in deep learning for computer vision applications

Posters exhibit 14h45 - 15h45 Session Posters I

Chair: Pr. Abdelmalik Taleb-Ahmed

PI.1: <u>Riadh Meghatria</u>, Safaa Ferrah and Hadjer Belhenniche, Harnessing Social Media for Early Natural Disaster Detection.

PI.2: Yassine Belhadi, Okba Kraa, Khaled Telli et al, Sizing of fuel cell/supercapacitor hybrid system based on driving cycles and required power.

PI.3: Aissaoui Azeddine, Aloui Imene, Boudibi Samir et al, Deep Learning Approaches for Plant Diseases Identification and Classification: A Comprehensive Revie

PI.4: Amira Hamidi, Boualem Mekimah, Souad Berhab et al, A High Gain Circularly Polarized Passive RFID Tag on a Metallic Reflector for UHF Band application

PI.5: <u>Oulhissane Lynda</u>, Merah Mostefa, Simona Moldovanu et al, Detection of Detonators in Baggage Using Deep CNN Architecture: A Comparative Study of Contrast Enhancement and Feature Extraction Methods





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PI.6: Amel Benabdallah, Lyna Henaa Hasnaoui and Abdelghani Djebbari, Robust Biometric Statistical Features within Continuous Blood Pressure Signals

PI.7: Annou Abderrahim Annou, Souad Berhab, Houria Mihad Benderradji et al., Novel ENG, MNG, and DNG Metamaterial Unit Cells for S and C Communications.

PI.8: Mohamed Lakhdar Tiar, Nadjiba Terki and Juan Jose Dominguez Jimenez, Pneumonia Classification using deep learning: a comparative stud

PI.9: Fatiha Louakhche, Ahcene Abed, Redha Bendoumia et al, SIW structure optimization for 5G waveguide design

PI.10: <u>Saoussen Djeddi</u>, Tarek Bentahar, Atef Bentahar et al, A Comparative Analysis of Branch-Cut and Quality-Guided Algorithms For inSAR Interferogram

PI.11: Yaaqoub Kahlessenane and Fatiha Bouaziz, QRS Complex Detection Algorithm based on the Empirical Mode Decomposition Method and the

Hilbert's Enhanced Approximate Envelope

PI.12: Nabila Zergoug, Maroua Allaoui, Wassila Dib and Oussama Kerdjidj, Identifying High-Risk Patients for Diabetes using Machine Learning

PI.13: Bentrad Moutaz Ballah, Ghoggal Adel, Bahi Tahar et al, Fault detection of induction machine using artificial neural networks

PI.14: Meskine Fatiha and Oussama Mezouar, Automatic Feature Points Based Registration Technique of Satellite Images

PI.15: Fadi Abd Eladhim Zidi and Abdelkrim Ouafi, Hyperspectral imaging using deep learning in wheat crops: (Review)

PI.16: Zahia Benamara, Soraya Zehani and Athmane Zitouni, The Effect of Fully Connected Layers in Different CNN Architectures for Lung Cancer Analysis

PI.17: Aicha Merabet, Abdelkrim Ouafi and Abdelmalik Ouamane, Robust Person Re Identification by using fusion features and metric learning.

PI.18: <u>Hiba Ines Bitat</u>, Fouzia Maamri, Fatima Khelfaoui, Hanane Djellab, Yacine Messai and Feriel Aouissi, Optimization of a MIMO Antenna using the API metaheuristic algorithm

PI.19: Sofiane Ben Abdi, Abderrazak Debilou, Aicha Guergazi et al, Speed control of BLDC Quadrotor motor using ANN based on data PID-PSO

PI.20: Ismail Hadj Ahmed and Abdelghani Djebbari, Investigating Sympathovagal Balance in Men and Women through Time–Frequency Analysis

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PI.21: Kenza Benabderrahmane, Fatma Chaibeddra, Amina Serir et al, Investigation of the Relevance of Parameters Influencing DL User

Throughput

PI.22: <u>Khalida Mimoune</u>, State Estimation for Nonlinear System Using Line Integral Lyapunov Function: A Polytopic Approach With Unmeasurable Premises

PI.23: <u>Amar Hichem</u>, Babes Badreddine, Hamouda Noureddine et al, Biometric Hand Recognition by Application of Particle Swarm Optimization Method

PI.24: <u>Oumaima Gharsa</u>, Mostefa Mohamed Touba, Mohamed Boumehraz et al, Autonomous landing system for A Quadrotor using a visionbased approach.

PI.25: Leila Hellal, Score Level Fusion Based on T-Norms Algorithm

PI.26: Salah Okba, Ramzi Saadi, Momamed Yacine Hammoudi et al, Enhancing the Potential of PEMFC EVs with Cutting-Edge FOPI Control

based PDO Algorithme for a Three-Phase Interleaved Boost Converter

PI.27: Hasna Yazid and Said Gaci, Integrating hybrid weak learners for lithofacies classification using well log data

PI.28: <u>Wail Hamdi</u>, Mohamed Yacine Hammoudi, Achour Betka et al, Energy optimization of induction motor in transient state under field oriented control.

PI.29: <u>Aicha Mehidi</u>, Malika Mimi, Abdallah Mehidi et al, Contrast Enhancement and ROI detection in satellite images Application to the environment and sustainable development

PI.30: <u>Yasmine Benchaib</u>, Zineb Aziza Elaouabar, Mohammed El Amine Lazouni et al, Diabetic Retinopathy detection using modified U-Net architecture and artificial metaplasticity algorithm



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The IEEE Eighth International Conference on Image and Signal Processing and their Applications

15h45-18h40 Session Oral

Session: Image Processing - Room I	Session: Artificial Intelligence - Room II
Chairs: Pr Zitouni Athmane and Dr Aïcha Mehidi	Chairs: Pr Ouamane Abdelmalik Pr Amir Nakib
15h45-16h10: Brahim Remmouche, Mokhtar Taffar and Doulkifli Boukraa	15h45-16h10: Kahina Amara, Nadia Zenati, Oussama Kerdjidj et al.
OPA Module built into Yolo for Occlusion	Augmented Reality localisation using 6 DoF phantom head Pose
	Estimation-based generalisable Deep Learning model.
16h35-17h00: Metales Aicha and Ait Elhadj Amina	16h10-16h35: Roumaissa Bekiri, Sarra Babahenini and Mohamed
Image and Signal Processing: Techniques and Applications A Theoretical	
Approach	Transfer Learning for Improved Hand Gesture Recognition with Neural
	Networks.
16h35-17h00: Meryem Ketfi, Mebarka Belahcene and Salah Bourennane	16h35-17h00: Djenaihi Elhani, Ahmed Chaouki Megherbi, Athmane
Automated Detection and Segmentation of Breast Cancer in Ultrasound Images	Zitouni et al.
with Deep Learning.	Hybrid optimization method for Deep Neural Network architectures.
17h00-17h25: <u>Hayet Saadi</u> and Ali M Abdulshahed	17h00-17h25: Meadi Mohamed Nadjib, Abd El Mouméne Zerari and
Reinforcement Learning Applications in Medical Imaging	Hadjer Benbrahim
	Cervical spine fracture detection using deep learning algorithm
17h25-17h50: <u>Asma Saibi</u> and Yassmine Guerbai	17h25-17h50: Mohamed Amine Guerroudji, Kahina Amara and Nadia
Fire Incendie Detection : A compartive study of Convolutional Neural Networks	Zenati
(CNN) and Support Vector Machines (SVM).	Advancing Brain Tumor Detection: A Cutting-Edge Machine Learning
	Approach Leveraging CAD Systems
17h50-18h15: <u>Abdelhafidh Kacher</u> , Medjeded Merati and Saïd Mahmoudi	17h50-18h15: Ahmed Chaouki Chami, Riadh Ajgou and Abdelmalik
Classification of Multi-view mammogram images using a parallel pre-trained	Taleb-Ahmed
models system.	Facial Age Estimation Based On Transformers
18h15-18h40: <u>Ahmed Omrane Meddas</u> , Dalel Jabri and Djamel Eddine	
Chouaib Belkhiat	Progressive Deep Transfer Learning for Accurate Glaucoma Detection in
A Short Review on Convolutional Neural Networks-Based Histopathological	Medical Imaging
Breast Cancer Classification	



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15h45-18h40 Session Oral

Session: Telecommunications - Room III	Session: Robotic - Room IV
Chairs: Pr Tayeb A. Denidni and Pr. Ajgou Riadh	Chairs: Pr Boumahrez Mohamed Dr Mawloud Mosbah
15h45-16h10 : Mohammed Amine Benbouzid, Hesham Sadat, Nabil	15h45-16h10 : Zakaria Mehal, Yasser Bouzid, Mohammed Guiatni et al.
Belghachem et al.	Optimal Target Interception using Foldable Quadrotor with Rotating Arms
PD-NOMA Technique for Out-Door FSO-OCDMA Under Various Atmospheric	
Conditions	
16h10-16h35: Fethi Benikhlef and Nesraddinne Boukli-Hacene	16h10-16h35: Fadi Abd Eladhim Zidi and Okba Benelmir
Mutual Coupling Reduction in Patch Antenna Arrays by Using EBG Structures	Land drone system.
16h35-17h00: Imene Charabi, M'Hamed Abidine and Belkacem Fergani.	16h35-17h00: <u>Amal Bouatrous</u> , Nadia Zenati, Abdelkrim Meziane et al.
Sensor-Based Human Activity Recognition Using a Hybrid CNN-SVM	An interactive virtual reality system based on leap motion controller for
Approach.	hand motor rehabilitation
17h00-17h25: <u>Kourdi Zakarya,</u> Irid Sidi Mohammed Hadj, Chaima	17h00-17h25: Zoulikha Bouhamatou and Foudil Abdessemed
	A Finitetime Synergetic Control for Car like Mobile Robot.
Boukharis et al, Array Patch Antenna in Ka Band Internet Satellite	
Application	
17h25-17h50: Souad Chabbi, Khadidja Belhi and M'Hamed	17h25-17h50: <u>Ali Zakaria Messaoui</u> , Omar Mechali, Iheb Edine Smaali
Hamadouche, New Weighted Cell Averaging CFAR detector for	et al.
Gaussian environment	RBFNN-Based Optimized PID Control for a 3-DOF Helicopter System:
	Design and Validation
17h50-18h15: Samia Gamouh and Soraya Gouder	17h50-18h15: <u>Raouf Sebbah</u> and Fatma Zohra Chelali
Analysis and Study of Photonic Crystal Fiber Using Different Structures	IWBC and LFD for Static and Dynamic Hand Gesture Recognition.
18h15-18h40: Mohamed Benaissa, Abdelhalim Chaabane, Djelloul Aissaoui	18h15-18h40: Faycal Ykhlef, Ouahiba Cherir, Amal Mekdour et al
and Hussein Attia	Efficient parking lot management system for parking attendants based on
Efficient Ultra-Compact Antenna for 2.45 GHz ISM Band Wireless Connectivity	real-time impulsive sound detection and voice command
in Biomedical Devices	



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Monday, April 22nd

08:00-08:30 : Registration

<u>08:30-09:15</u> : Plenary conference III Chairs : Benakcha Abdelhamid, Khireddine Abdelkrim

Professor Tayeb A. Denidni

National Institute of Scientific Research INRS · Energy, Materials and Telecommunications Research Centre, Québec - Canada

Advanced Beamforming Antennas for Future Wireless Communication Systems

<u>09:15-09:45</u> <u>Coffee Break</u>





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Monday, April 22nd

09h50-12h45 : Oral Session

Session: Image Processing - Room I	Session: Telecommunications - Room II
Chairs: Pr Taibi Mahmoud and Dr Merzak Ferroukhi	Chairs: Pr Khireddine Abdelkrim Dr Salim Abdessalem
09h50-10h15: Dalia Manel Akkouchi, Ibtissem Lechelache, Yasmine Sekkour et	09h50-10h15: <u>Amar Tou</u> , Samia Driz, Benattou Fassi et al.
al	Impact of RZ-DQPSK Modulation Generation Method on FSO Link Performance in
TL-PNN: a New Two-stream Lightweight Framework for Pansharpening based on Convolutional Neural Networks.	Turbulent Environments.
10h15-10h40: <u>Yacine Belhocine</u> , Abdallah Meraoumia, Hakim Bendjenna et al.	10h15-10h40: Mohamed Kamel Benbraika, Okba Kraa, Khaled Telli et al.
Biometric based Copyright Verification in the Era of Digital Piracy : A Promising Solution	Mobile Edge Computing Discovery for Device-to-Device Communication in 5G
10h40-11h05: Wahiba Menasri, Abderkader Morsli, Abderrezak Gacemi et al.	10h40-11h05: Belkhir Mohamed, Mehdi Rouissat, Pascal Lorenz et al.
Software and Hardware Implementation of Regular Mode CABAC Decoder in	An In-Depth Analysis of Application Protocols Performances in Various IoT Network
VVC Standard.	environments.
11h05-11h30: Ouiza Nait Belaid, Malik Loudini and Amir Nakib	11h05-11h30: <u>Djihane Maadoud</u> , Abdelkrim Hamza and Mohamed Becherif.
Brain tumor classification using DenseNet and U-net convolutional neural	Exploring the potential of Non Terrestrial Networks in next generation Intelligent
networks.	Transport Systems.
11h30-11h55: Ilyes Benaissa, Athmane Zitouni and Salim Sbaa, Using	11h30-11h55: <u>Abdelmalik Mekaoussi</u> and Mohammed Titaouine
Multiclass Semantic Segmentation for Close Boundaries and Overlapping Blood Cells	Trapezoidal Antenna Study With MEMS Switches.
11h55-12h20: <u>Amel Belbel</u> , Amara Bekhouch and Noureddine Doghmane	11h55-12h20: Ahcene Abed, Aissa Amrouche, Kraimia Hind et al.
Impact of Intra-Refresh on Error Resilience and Compression Efficiency in MV-	SIW-based Network Antenna Design and Analysis.
HEVC.	
12h20-12h45: Mohamed El-Mehdi Imam, Lila Meddeber, Belaid Mohammed	12h20-12h45: <u>Messaoud Babaghayou</u> , Noureddine Chaib, Leandros Maglaras et al.
Belaid et al	Distance-Only Task Orchestration Algorithm for Energy Efficiency in Satellite-Based
A Comparative Analysis of Road Extraction from Satellite Images using D-	Mist Computing
LinkNet34	



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Monday, April 22nd 09h50-12h45 : Oral Session

Session: Biomedical Engineering - Room III	Session: Artificial Intelligence - Room IV
Chairs: Pr Benabdellah Yagoubi and Pr Ouahabi Abdeljalil	<u>Chairs</u> : Pr Babahenini Ahmed Chaouki and Pr Yacine Yaddaden
09h50-10h15: Arezki Larbi, Abed Mansour, Ahmed Nahi et al.	09h50-10h15: Khedija Mekhilef, Fayçal Abbas and Mounir Hemam
Neonatal seizure detection from minimized EEG channels using polynomial compact support distribution and VGG19-BiLSTM hybrid model	Enhanced Defect Classification with CNNs and Path Aggregation Networks.
10h15-10h40: Hyem Saadi and Merzak Ferroukhi	10h15-10h40: Belabbaci El Ouanas, Khammari Mohammed, Chouchane Ammar et
Low Noise Biopotential Amplifier and the Future Use of Energy Scavengers for	al.
Biomedical Instrumentation	Enhancing Kinship Verification through Multiscale Retinex and Combined Deep-
	Shallow features
10h40-11h05: Saida Sarra Boudouh and Mustapha Bouakkaz	10h40-11h05: Nadia Azri, Sadek Labib Terrissa, Fadila Madaci et al.
Breast Micro-Calcification Classification: Xception and DenseNet201 Feature	Enhancing Breast Cancer Classification Using Ensemble Techniques and Feature
Fusion in Mammography.	Selection Algorithms
11h05-11h30: <u>Khadidja Fellah Arbi</u> , Faycal Saffih, Sofiane Soulimane et al.	11h05-11h30: Riadh Meghatria, Hadjer Belhenniche and Safaa Ferrah
Constrained Linear Model Predictive Control for an Artificial Pancreas	Rumors detection on X using pretrained language models
11h30-11h55: Ayoub Bouzara and Adel Kermi	11h30-11h55: Lotfi Madaoui, Malika Kedir-Talha and Oussama Kerdjid.
Automated Brain Tumor Segmentation in Multimodal MRI Scans Using a Multi-	A CNN-based Method for Human Activity Recognition Using Inertial Measurement
Encoder U-Net Model.	Units
11h55-12h20: Mohamed Rebiai, Mohamed Rafik Aymene Berkani et al	11h55-12h20: Abir Belaala, Labib Sadek Terrissa, Zeina Al Masry et al.
Mathematical Morphology-Based Envelope Detection for Cardiac Disease	Towards improved skin lesions classification using automatic hyperparameters
Classification from Phonocardiogram Signals.	selection and transfer learning.
12h20-12h45: <u>Amal Bouatrous</u> , Abdelkrim Meziane, Nadia Zenati et al.	12h20-12h45: Salima Attache, Mohamed Sayah, Labib Sadek Terrissa et al.
Semi-immersive virtual reality system to enhance hand motor rehabilitation after	Accurate Recurrent Neural Network for Active Earth Pressure Coefficient Estimation.
stroke.	

12:45-14:00 Lunch Break



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Monday, April 22nd

<u>14:00-14:45</u> : Plenary conference IV

Chairs : Pr Merah Mustapha and Dr Mansour Abed

Prof. Dr. Nizamettin AYDIN

Istanbul Technical University, Faculty of Computer and Informatics, ITU Ayazaga Campus, 34469, Maslak, Istanbul, Turkiye

Assessment of Male Dependent Infertility – An Application of Image Processing, Computer Vision, and Artificial Intelligence



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Posters exhibit 14h45 - 15h45 Session Posters II

Chair: Pr. Abdelmalik Taleb Ahmed

PII.1: Brahami Menaouer and Sabri Mohammed, Blood Products Transfusion Prediction using Multi-label Classification Methods

PII.2: <u>Taha Lemdjed Belahcene</u>, Okba Kraa, Hamza Afghoul et al, Maximum power point tracking based on metaheuristic algorithms of Partially Shaded solar photovoltaic system

PII.3: Fatan Bougheziou, Omar Chaab, Malika Mimi et al, Extended depth-of-Field of vision with the acquisition of two holograms of orthogonal views with two synchronized cameras

PII.4: <u>Riadh Meghatria</u> and Imène Ait Abderrahim, Detection and Recognition Approaches for Medical Labels in Algeria

PII.5: Zoulikha Bebboukha and Athmane Zitouni, A New hybrid deep learning coder for Alzheimer classification

PII.6: Nor Elhouda Hasrouri and Ibtissem Bennnara, Visual Cryptography.

PII.7: <u>Abdelmadjid Youcefa</u>, Oussama Aiadi, Belal Khaldi et al, Semantic clustering of images using semantic similarity measures: A comparative study

PII.8: <u>Aissa Boudjella</u>, Manal Yasmine Boudjella and Chuang Liu, Heating Energy Performance Assessment using KNN Classification method: Investigating Test Size, Neighbor Parameter, and Class Count Effects

PII.9: <u>Kebaili Rima</u>, Driz Samia and Fassi Benattou, Supervised Machine Learning Method based Modulation Formats Classification for WDM Systems

PII.10: Alqudami Dheya Alhaq Ahmed Hamood Abdullah, Redadaa Salah, Ikni Samir et al., Low Complexity PAPR Reduction Scheme for



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PII.11: Fatma Khenaifer, Ilyes Benaissa, Athmane Zitouni et al, Assessing the Performance of U-Net in Three Dimensional Medical Image Segmentation

PII.12: <u>Adama Coulibaly</u>, **Ibrahima Ngom and Jean Marie Dembele**, Remote sensing of artisanal mines buried in the ground by infrared thermography using UAV

PII.13: <u>Benelmir Okba</u> and Dhiabi Fathi, Crack Image Classification: Performance Comparison Among Different Machine Learning Algorithms

PII.14: <u>Moussa Touhami</u>, Abdelmalik Ouamane and Ammar Chouchane, A Guide to Cost-Effective Collection of Colloquial Algerian Arabic Speech Data

PII.15: Lynda Fedlaoui, Ahmed Benallal and Mountassar Maamoun, A Proportionate Fast NLMS with Competent Individual Activation Factors

PII.16: Karim Benenamara, Riad Saidi, Tarek Bentahar et al, Analysis of the Quality of Insar Images Encrypted by the Feistel Network-Based Cryptosystem Using the CFB mode.

PII.17: <u>Mohammed Bendaoud</u>, Samir Kameche and Achour Ouslimani, Analysis of the dynamics and synchronization of a Novel 1-11 GHz Chaotic Oscillator

PII.18: Bouthina Rechachi, Khaled Rezeg and Okba Kazar, Palm tree diseases detection using deep learning : a short review

PII.19: Sarra Ouamri, Mansour Abed and Abdelaziz Ould Ali

ALS Disease Detection in EMG using a Polynomial Compact Support Kernel-based Time-Frequency Distribution and CNN

PII.20: <u>Aicha Mehidi, Khadidja Berradja, Malika Mimi et al</u>, Machine learning for detection and classification of different tumors in mammograms



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Session: Image Processing - Room I Chairs: Pr Djamel Samai and Dr Soraya Zehani	Session: Signal Processing - Room II Chairs: Pr. Ouahabi Abdeldjalil and Pr Ahmed Chaouki Megherbi
15h45-16h10: <u>Sara Atek</u> , Imane Mehidi, Imane Khadidja Abbas et al. U-Net Based Retinal Vessel Detection on DRIVE and CHASE_DB1 Databases: The Impact of Data Augmentation	15h45-16h10: <u>Elbahdja Ourfella</u> , Mohamed Fouad Hassani and Sabra Benkrinah, Enhancement of GPS signals acquisition in an inhomogeneous environment using the CFAR techniques
 16h10-16h35: Dounia Kawther Dihya Bourzig, Mansour Abed and Mostefa Merah Black rot diseases' classification of apples and grapes using convolutional neural network and transfer learning 16h50-17h15: Lynda Chaouchi, Djamel Gaceb, Fayçal Touazi and Djouher Djani Application of Deep Transfer Learning in Medical Imaging for Thyroid Lesion Diagnostic Assistance 	16h10-16h35: Mohamed Yacine Bensouda and Ahmed Benallal Improved Fast NLMS algorithm based on variable forgetting factor technique 16h35-17h00: Fatima Bennia, Siham Moussaoui, Mohammed Chaker et al. Comparative study between EMD, EEMD, and CEEMDAN based on De-Noising Bioelectric Signals.
 17h00-17h25: <u>Rokia Chettouh</u>, Abdelfatih Bengana and Ismail Boukli Hacene Hybrid Machine Learning Application in Alzheimer's Disease Diagnosis through Magnetic Resonance Images. 17h25-17h50: <u>Imene Bourafa</u>, Mokhtar Taffar and Mohamed Nadjib Zennir <i>Efficient Region Proposals Generation for Object Detection</i>. 	 17h00-17h25: Ferdi Ahmed Yassine and Ghazli Abdelkader EEG-based Biometric Authentication Using Machine and Deep Learning Approachs: A Review 17h25-17h50: Neili Zakaria and Kenneth Sundaraj Addressing Varying Lengths in PCG Signal Classification with BiLSTM Model and MFCC Features



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Session: Applications - <i>Room III</i>	Session: Artificial Intelligence - <i>Room IV</i>
<u>Chairs</u> : Pr Khier Benmahammed and Pr Toumi Abida	Chairs: Pr Maarouf Korichi and Pr Yacine Yaddaden
15h45-16h10: <u>Gherbia Amel</u> and Zehani Soraya Enhancing Security and Privacy Measures in Internet of Things (IoT) Implementations	15h45-16h10: <u>Chahrazed Rahmani</u>, Azeddine Benlamoudi, Salah Eddine Bekhouche et al.Driver Drowsiness Detection Using Swin Transformer model
16h25-16h50: <u>Hicham Madjidi</u> , Toufik Laroussi and Nedjma Detouche	16h10-16h35: <u>Faiza Bella</u> , Ali Berrichi and Abdelouahab Moussaoui
CFAR Detection of ships based on Median Absolute Deviation for SAR imagery in a	Vision Transformer Model for Classification of Gastrointestinal Tract
Heterogeneous Weibull Sea Clutter.	Diseases from WCE Images
16h50-17h15: <u>Badis Bacha</u> , Hatem Ghodbane, Habiba Dahmani et al. Forecast analysis of hybrid renewable energies using deep learning: A case study with data from the Capricorn FLX 202004 weather station in Biskra, Algeria	16h35-17h00:Akram Abderraouf Gharbi,AmmarChouchane,Mohcene Bessaoudi et al.Advancing Person Re-Identification:Tensor-based FeatureFusion andMultilinear Subspace LearningFusionFusionFusion
17h15-17h40: <u>Lamis Badis</u> , Wahiba Aliouat and Kenza Bouchiba	17h00-17h25: <u>Dorra Lamouchi</u> , Yacine Yaddaden and Raef Cherif
Automated design of Convolutional Neural Network architecture using Gray	Comparative Study: Physiological-Based Driver Drowsiness Detection
Wolf Optimization for plant seedlings classification	Using Traditional and Hybrid Machine Learning Methods
17h40-18h25: <u>Abir Betka</u> , Mounira Hendaoui, Samia Noureddine et al. Deep Learning- Based Bayoud Disease Recognition Using Palm Fronds Database From Biskra Region, Algeria	17h25-17h50: <u>Elias Boulham</u> , Mokhtar Taffar and Mouad Bensouilah CRNN-based Word Recognition Model for Reading Algerian Drug Labels

17:50-18:30: Awards and Closing of the IEEE ISPA 2024

Chairs: Pr Abdelkarim Ouafi, Pr Abdelmalik Taleb Ahmed and Pr Malika Mimi