

تحت الرعاية السامية لصاحب الجلالة الملك محمد السادس نصره الله  
UNDER THE HIGH PATRONAGE OF HIS MAJESTY KING MOHAMMED VI

# WELCOME TO

# 5<sup>TH</sup> ICAISE

INTERNATIONAL CONFERENCE ON  
ARTIFICIAL INTELLIGENCE & SMART ENVIRONMENTS

## The 5<sup>th</sup> International Conference on Artificial Intelligence & Smart Environments

# CONFERENCE PROGRAM

November, 23<sup>th</sup> - 25<sup>th</sup>, 2023  
Errachidia, Morocco

*With support of*

**Moulay Ismail University, Faculty of Sciences and Techniques, Errachidia, Morocco**

  
جامعة مولاي إسماعيل  
UNIVERSITÉ MOULAY ISMAÏL

  
كلية العلوم والتقنيات  
FACULTÉ DES SCIENCES ET TECHNIQUES

  
المركز الوطني للتحليل العلمي والتقني  
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جمعية المواكبة  
للتكوين والبحث العلمي  
Association d'Accompagnement  
pour la Formation et la Recherche Scientifique



  
ROYAUME DU MAROC  
MINISTÈRE DE L'AGRICULTURE ET DE LA PÊCHE MARITIME  
OFFICE RÉGIONAL DE MISE EN VALEUR  
AGRICOLE DU TAFILALET

  
أكاديمية الحسن الثاني للعلوم والتقنيات  
Académie Hassan II des Sciences et Techniques

  
ROYAUME DU MAROC  
Académie Hassan II des Sciences et Techniques

  
المملكة المغربية  
وزارة الداخلية  
ولاية جهة ورشة - تافيلالت  
عمالة إقليم الرشيدية  
المجلس الإقليمي



DIGITALIZATION, INNOVATION  
AND PROCESS SIMULATION

  
Fondation Mohammed VI pour le Développement  
Maroc

  
السديم الراضي  
ASSADIM ARRIADI

## ICAISE'23 and Workshops Program Time Slots

Timing	Thursday, November 23, 2023					
08:00-09:00	Registration					
09:00-10:00	Opening Ceremony					
10:00-10:30	Coffee Break					
10:30-11:30	Keynote Speaker 1					
11:30-12:30	ICAISE-Poster Session					
<b>13 :00</b>	<b>LUNCH</b>					
15:00-16:00	Keynote Speaker 2					
16:00-17:00	Keynote Speaker 3					
17:00-17:15	Coffee Break					
17:15-18:00	Keynote Speaker 4					
18:00-19:00	ICAISE-S1	ICAISE-S2	IWEERE-S1	IWISEN-S1	ICAISE-S3	ICAISE-S4

Timing	Friday, November 24, 2023				
09:00-10:00	ICAISE-S5	ICAISE-S6	ICAISE-S7	ICAISE-S8	ICAISE-S9
10:00-11:00	Keynote Speaker 5				
11:00-12:00	Keynote Speaker 6				
12:00-12:15	Coffee Break				
12:15-12:45	ICAISE-Poster Session				
<b>14:15</b>	<b>LUNCH</b>				
15:30-16:30	Keynote Speaker 7				
16:30-17:30	ICAISE-S10	ICAISE-S11	ICAISE-S12	ICAISE-S13	ICAISE-S14
17:30-17:45	Coffee Break				
17:45	ICAISE-S15	IWEERE-S2	IWEERE-S3	IWISEN-S2	ICAISE-S16
	ICAISE-S17			ICAISE-S18	

Timing	Saturday, November 25, 2023			
09:00-10:00	Keynote Speaker 8			
10:00-11:00	Keynote Speaker 9			
11:00-11:15	Coffee Break			
11:15-12:15	Keynote Speaker 10			
12:15	ICAISE-S19	ICAISE-S20	ICAISE-S21	ICAISE-S22
	ICAISE-S23	ICAISE-S24	ICAISE-S25	ICAISE-S26
<b>13:30</b>	<b>LUNCH</b>			
<b>15 :30</b>	<b>Excursion and Gala Dinner Invitation in Merzouga</b>			

## **SYMPOSIUM AND WORKSHOPS**

### **The 2nd International Workshop on Electrical Engineering and Renewable Energy**

**IWEERE'2023**

**General Chairs:**

**Said Ziani**, ENSAM, Mohammed V University, Agdal, Morocco

### **The 5th International Workshop on Intelligent Systems and Emergent Networks**

**IWISEN 2023**

**General Chairs:**

**Mohammed FATTAH**, EST, Moulay Ismail University, Morocco

**Younes BALBOUL**, ENSA, USMBA, Fes, Morocco



## DETAILED PROGRAM

Thursday, November 23, 2023

**Registration** 08:00-09:00

Room: Registration Room

**Opening** 09:00-10:00

Opening Ceremony

Wali of the Drâa-Tafilalet region, Morocco  
President of Moulay Ismail University, Morocco  
President of the Drâa-Tafilalet region, Morocco  
President of the Provincial Council of Errachidia, Morocco  
Dean of FST, Errachidia, Morocco

Room: AMPHI

**Coffee Break** 10:00-10:30

Room: Meeting Foyer

**Keynote Speaker 1** 10:30

**Towards the IT security trend: Homomorphic security**

**Dr. Ahmed Asimi**, Faculty of Science, Agadir, Morocco

Session Chair: **Dr. Imad Zeroual / Dr. Mourade Azrour**, FST, UMI, Morocco

Room: AMPHI

**ICAISE-Poster Session** 11:30

Room: Meeting Foyer

**LUNCH** 13:00

**Keynote Speaker 2** 15:00

**Trust-based decentralized blockchain system with machine learning using the Internet of Agriculture things**

**Dr. Tanzila Saba**, College of Computer and Information Sciences at Prince Sultan University, Riyadh, KSA

Session Chair: **Dr. Youssef Agrebi Zorgani**, ISET Sfax, Tunisia

Room: AMPHI

**Keynote Speaker 3** 16:00

**Detection of Falsified Messages in Internet of Vehicle by Machine Learning**

**Dr. Maode MA**, College of Engineering at Qatar University, Qatar

Session Chair: **Dr. Yassine Koubaa**, ISET Sfax, Tunisia

Room: AMPHI

**Coffee Break** 17:00

Room: Meeting Foyer

**Keynote Speaker 4**

**17:15**

## **Threat Intelligence and Machine Learning: A Powerful Combination for Cybersecurity**

**Dr. Hamed Taherdoost**, University Canada West, Canada

Session Chair: **Dr. Said Ziani**, ENSAM-UM5, Rabat, Morocco

Room: AMPHI

**Technical Sessions**

**18:00**

**ICAISE-S1: Adaptive Systems, Artificial Intelligence and Applications**

**Session Chair:** Dr. Youssef Mejdoub, EST, Hassan II University, Casablanca, Morocco

**Room:** AMPHI

**Identifying ChatGPT-generated essays against native and non-native speakers**

*Anoual El kah, Ayman Zahir, and Imad Zeroual*

**E-health Blockchain: Conception of a new smart healthcare architecture based on deep reinforcement learning**

*Soumia Benkou, Asimi Ahmed, Lahdoud Mbarek*

**Dynamical modeling of climatic parameters under greenhouse**

*Abderrazak Kaida, Youssef El Afou, Abderrahman Aitdada, Said Hamdaoui And Abdelouahad Ait Msaad*

**From BIM towards digital twin: Step by step construction industry is becoming smart**

*Miraoui zayneb, Abdellader Nasser, Mohsin kodad*

**ICAISE-S2: Smart Environment and Applications**

**Session Chair:** Dr. Fatima Amounas, FSTE, UMI, Morocco

**Room:** Room 1

**Machine Learning in Cybersecurity: Evaluating Text Encoding Techniques for Optimized SMS Spam Detection**

*Adnane Filali, El Arbi Abdellaoui Alaoui, and Mostafa Merras*

**A Comprehensive Performance Analysis of Pretrained Transfer Learning Models for Date Palm Disease Classification**

*Abdelaaziz Hessane, Ahmed El Youssefi, Yousef Farhaoui, Badraddine Aghoutane*

**A comprehensive review on the integration of Blockchain Technology with IPFS in IoT ecosystem**

*Soufian El airaj, Fatima Amounas, Mourade Azrou, Mohamed Badiy*

**Marketing Based On The Digitalization Of Customer Relations: A Priority Orientation For Better Management Of Companies' Financial Resources**

*Khalid Lali, Abdellatif Chakor*

**Comparative Analysis of Pre-trained CNN Models for Image Classification of Emergency Vehicles**

*Ali Omari Alaoui, Omaima El Bahi, Othmane Farhaoui, Mohamed Rida Fethi, Yousef Farhaoui, Ahmad El Allaoui.*

**IWEERE-S1: Electrical Engineering and Renewable Energy**

**Session Chair:** Dr. Said Ziani, ENSAM-UM5, Rabat, Morocco

Dr. Elamri Abdelkebir, EST, Hassan II University, Casablanca, Morocco

**Room:** Room 2

**Wavelet-based Denoising of 1-D ECG Signals: Performance Evaluation**

*Said Ziani, Achmad Rizal, Suchetha .M and Youssef Agrebi Zorgani*

**A Review of Non-linear Control Methods for Permanent Magnet Synchronous Machines (PMSMs)**

*Chaou Youssef, Ziani Said, Daoudia Abdelkarim*

**A Maximum Power Point Tracking using P&O method for system photovoltaic**

*Hafid Ben Achour, Said Ziani, Youssef El Hassouani*

**Optimized Schwarz and finite volume cell-centered method for heterogeneous problems**

*Mohamed M. Zarrouk*

**A first order sliding mode control of the Permanent Magnet Synchronous Machine**

*Hafid Ben Achour, Said Ziani, Youssef El Hassouani*

**Detection of products in retail stores using deep learning**

*fatima Aghjedim, Yousef Farhaoui, Yousef Qaraai*

**ICAISE-S3: Artificial Intelligence Solutions in Health**

**Session Chair:** Dr.S.Gopalakrishnan, Hindustan Institute of Technology and Science (Deemed To Be University), Kelambakkam, India

Dr. Anouar Riad Solh, FS, Mohammed V University, Morocco

**Room:** Online

**Detection of pesticide responsible of intoxication: An artificial intelligence based method**

*Ghanimi Rajae, ghanimi Fadoua , Abdelmajid souleimani*

**Chatbots for medical students exploring medical students' attitudes and concerns towards artificial intelligence and medical chatbots**

*Berrami Hind, Zineb Serhier, Manar Jallal And Mohammed Bennani Othmani*

**Comparative Study for Predicting Melanoma Skin Cancer using Linear Discriminant Analysis (LDA) and Classification Algorithms**

*Abidemi Emmanuel Adeniyi, Joyce Busola Ayoola, Joseph Bamidele Awotunde, Agbotiname Lucky*

*Imoize, Yousef Farhaoui, Gbenga Rasheed Jimoh, Devine F. Chollom*

**An Enhanced Internet of Medical Things Data Communication Based on Blockchain and Cryptography for Smart Healthcare Applications**

*Joseph Bamidele Awotunde, Yousef Farhaou., Agbotiname Lucky Imoize, Sakinat Oluwabukonla*

*Folorunso, Abidemi Emmanuel Adeniyi*

**A Novel for Seizure Prediction Using Artificial Intelligent and Electroencephalography**

*Ola Marwan Assim and Ahlam Fadhil Mahmood*

**Voice-Based Detection of Parkinson's Disease Using Empirical Mode Decomposition, IMFCC, MFCC, and Deep Learning**

*Nouhaila Boualoulou, Mounia Miyara, Benayad Nsiri, Taoufiq Belhoussine Drissi*

**An Integrated Approach for Artifact Elimination in EEG Signals: Combining Variational Mode Decomposition with Blind Source Separation (VMD-BSS)**

*H. Massar, M. Miyara, T. Belhoussine Drissi, B. Nsiri*

**ICAISE-S4: Artificial Intelligence and Applications**

**Session Chair:** Dr. Agbotiname Lucky Imoize, University of Lagos, Nigeria

**Room:** Online

**A decision-making model for selecting solutions and improvement actions using fuzzy logic**

*Anass Mortada and Aziz Soulhi*

**Prediction of Students' Academic Performance Using Learning Analytics**

*Sakinat Oluwabukonla Folorunso, Yousef Farhaoui, Iyanu Pelumi Adigun, Agbotiname Lucky Imoize , Joseph Bamidele Awotunde*

**Predicting Future Sales: A Machine Learning Algorithm Showdown**

*Manal Loukili, Fayçal Messaoudi, Mohammed El Ghazi, Hanane Azirar*

**Predict fires with machine learning algorithms**

*Korchi Adil , Fayçal Messaoudi, Abatal Ahmed*

**Classification of depression, anxiety, and quality of life in diabetic patients with Machine Learning: Systematic Review**

*Hind Bourkhime ; Noura Qarmiche ; Nassiba Bahra; Mohammed Omari ; Imad Chakri ; Mohamed Berraho ; Nabil Tachfouti ; Samira EL Fakir ; and Nada Otmani*

**Intrusion Detection System, A New Approach To R2l And U2r Attack Classification**

*El Asry Chadia, Douzi Samira, El Ouahidi Bouabid*

**PID Vs Fuzzy logic controller speed control comparison of DC motor using QUANSER QNET 2.0**

*Megrini Meriem, Ahmed GAg, Youness Mehdaoui*

**Sensored brushless DC motor control based on an artificial Neural Network controller**

*Megrini meriem, Ahmed Gaga, Youness Mehdaoui*

**IWISEN-S1: Intelligent Systems and Emergent Networks**

**Session Chair:** Dr. Fatna EL MENDILI, EST, Moulay Ismail University, Meknes, Morocco

Dr. Abdelhafid ES-SAQY, USMBA, Fes, Morocco

Dr. Mohammed FATTAH, EST, Moulay Ismail University, Meknes, Morocco

**Room:** Online

**A Fog-based attack detection model using deep learning for Internet of Medical Things**

*Yahya Rbah, Mohammed Mahfoudi, Balboul Younes, Kaouthar Chetioui, Mohammed Fattah, Said Mazer, Moulhime El Bekkali and Bernoussi Benaissa*

**Emerging Concepts Using Blockchain and Big Data**

*Fatna El Mendili, Mohammed Fattah*

**Exploring the Applications and Challenges of Blockchain Technology in Healthcare and IoT**

*Fatima Anter, Fatna El Mendili, Mohammed Fattah, Nabil Mrani*

**Uncovering Data Quality Issues in Big Healthcare Data: Implications for Accurate Analytics**

*Nisrine Berros, Youness Filaly, Fatna El Mendili and Younes El Bouzekri El Idrissi*

**Enhancing IoMT Security: A Conception of RFE-Ridge and ML/DL for Anomaly Intrusion Detection**

*Ghita Lazrek, Kaouthar Chetioui and Younes Balboul*

**Study and design of a 140 GHz power divider**

*Abdeladim El Krouk, Abdelhafid Essaay, Mohammed Fattah, Said Mazer, Mehdi Mahmoud and Moulhime El Bakkali*

**Creation of a soft circular patch antenna for 5G at a frequency of 2.45 GHz**

*Salah-Eddine Didi, Imane Halkhams, Abdelhafid Es-Saqy, Mohammed Fattah, Younes Balboul, Mazer Said, Moulhime El Bekkali*

**Comparative study between Gilbert and Cascode Mixers for 5G mm-Wave Systems**

*Abdelhafid Es-Saqy, Maryam Abata, Mohammed Fattah, Said Mazer, Mahmoud Mehdi, Moulhime El Bekkali and Catherine Algani*

Friday, November 24, 2023

**Technical Sessions**

**09:00**

**ICAISE-S5: Adaptive Systems, Artificial Intelligence and Applications**

**Session Chair:** Dr. El Arbi Abdellaoui Alaoui, ENS, Moulay Ismail University of Meknes, Morocco

**Room:** AMPHI

**A survey on RFID mutual Authentication protocols based ECC for Resource-constrained in IoT environment**

*Hind Timouhin , Fatima Amounas , Mourade Azrou*

**Understanding the factors contributing to traffic accidents: Survey and Taxonomy**

*Soukaina El Ferouali, Zouhair Elamrani Abou El Assad, Abdelmounaïm Abdali*

**Design and analysis of wide band circular patch antenna for IOT and biomedical applications**

*Siraj Younes And Foshi Jaouad*

**A novel detection, prevention and management proactive system of patients chronic disease based on IoT, Blockchain, AI and Digital Twin**

*Mbarek Lahdoud, Ahmed Asimi*

**ICAISE-S6: Smart Environment and Applications**

**Session Chair:** Dr. Rubayyi Turki, College of Science, Imam Mohammad Ibn Saud Islamic University (IMSIU), Riyadh, Saudi Arabia

Dr. Ahmed El Abbassi, FST-UMI, Errachidia, Morocco

**Room:** Room 1

**Enhancing Solar Power Generation Through Threshold-Based Anomaly Detection in Errachidia, Morocco**

*Mohamed Khalifa Boutahir, Yousef Farhaoui, Benchikh Salma, And Mourade Azrou*

**YOLO-based Approach for Intelligent Apple Crop Health Assessment**

*Imane Lasri, Sidi Mohamed Douiri, Naoufal El-Marzouki, Anouar Riadsolh, and Mourad Elbelkacemi*

**Pyramid Scene Parsing Network for Driver Distraction Classification**

*Abdelhak Khadraoui and Elmoukhtar Zemmouri*

**Exploring the Impact of Convolutions on LSTM Networks for Video Classification**

*Manal Benzyane, Mourade Azrou, Imad Zeroual, and Said Agoujl*

**Neural Network for link Prediction in social network**

*Mohamed Badiy , Fatima Amounas , Ahmad El Allaoui and Younes Bayane*

**Time window size impact on bitcoin price forecasting**

*Ahmed El Youssefi, Abdelaaziz Hessane, Yousef Farhaoui, Imad Zeroual*

**The Impact of Lack of Sociability in Intelligent Spaces on Employees: An Exploratory Study**

*Laila Zaouel, Fatima Ezzahra Siragi*

**ICAISE-S7: Big Data & Data Science**

**Session Chair:** Dr. Youssef Qaraai, FSTE, UMI, Morocco

Dr. Mohammed Merzougui, FSJES, Oujda, Morocco

**Room:** Room 2

**Enhancing Fake Account Detection on Facebook using Boruta Algorithm**

*Amine Sallah and El Arbi Abdellaoui Alaoui and Said Agoujl*

**Investigating the Influence of Feature Selection on Time Series Forecasting for Solar Radiation Hasna**

*Hissou, Said Benkirane, Azidine Guezaz, Abderrahim Beni- Hssane*

**Machine learning for early fire detection in the Oasis environment**

*Safae Sossi Alaoui and Yousef Farhaoui*



**Using Artificial Intelligence (AI) Methods on the Internet of Vehicles (IoV): Overview and Future Opportunities**

*Adnan El Ahmadi, Otman Abdoun, El Khatir Haimoudi*

**Dynamic Discounting and Flexible Invoices payment scheduling for supply chain financial performance optimization**

*Halima Semaa, Youssef Malhouni, Abdelillah Semma, Laila Bouzarra, and Mohamed Ait Hou*

**Performance improvement of internet of things by using fuzzy logic**

*Oussama Lagnfdi and Anouar Darif*

**ICAISE-S8: Networks & Security**

**Session Chair:** Dr. Abou El Hanoune Youness, University of Abdelmalek Essaadi, Morocco

Dr. Boujraf Ahmed, University of Abdelmalek Essaadi, Morocco

**Room:** Online

**Design and Analysis of the Rectangular Microstrip Patch for 5G Application**

*Karima Benkhadda, Fatehi AL talqi, Samia Zarrik, Zahra Sahel, Sanae Habibi, Abdelhak Bendali, Mohamed Habibi, Abdelkader Hadjoudja*

**Design of a GaAs-FET based Low Noise Amplifier for sub6GHz 5G applications**

*Samia Zarrik, Abdelhak Bendali, Fatehi AL Talqi, Karima Benkhadda, Sanae Habibi, Mouad El Kobbi, Zahra Sahel and Mohamed Habibi*

**Design, Simulation, and Analysis of Microstrip Antenna Circular Patch High efficiency for Radar applications at 32GHz**

*Fatehi AL talqi, Karima Benkhadda, Samia Zarrik, Echchelh Adil, Asma Khabba, Ahmed Ababs ALRimi*

**Network intrusion detection system using ML and DL: a comparative study**

*Asmaa Benchama Rajae Bensoltane Khalid Zebara*

**ICAISE-S9: Artificial Intelligence and Applications**

**Session Chair:** Dr. T. Herawan, STIPRAM Institute, Yogyakarta, Indonesia

Dr. Anouar Riad Solh, FS, Mohammed V University, Morocco

**Room:** Online

**Three Levels of Security Including Scrambling, Encryption and Embedding Data as Row in Cover Image with DNA Reference Sequence**

*Asraa Abdullah Hussein, Rafeef M. Al Baity, Sahar Adill*

**Comparative Study and Analysis of Existing Intelligent Tutoring Systems.**

*Zakaria Rida, Hadhoum Boukachour, Mourad Ennaji and Mustapha Machkour*

**Implementation of an intelligent monitoring system based on Quality 4.0 of the Induction Hardning process**

*Imane Moufid; Adil Nabih; Ismail Lagrat; Oussama Bouazaoui*

**Dynamic multi-compartment vehicle routing problem: Formulation and Algorithm**

*Beneich chaymaa and Douiri sidi Mohamed*

**Machine Learning for Predicting Prices and Empty Returns in Road Freight Transportation: Enhancing Efficiency and Sustainability**

*Mohamed Amine Ben Rabia And Adil Bellabdaoui*

**Which Data Quality Model for Recommender Systems?**

*Meriem Hassani Saissi And Ahmed Zellou*

**Texture analysis by gray level homogeneity in local regions**

*El Beghdadi Abdelhamid and Merzougui Mohammed*

**Improving the Resolution of Images using Super-Resolution Generative Adversarial Networks**

*Maryam J. Manaa, Ayad R. Abbas, Wisam Abed Shukur*

**Prediction of coefficient of friction and wear rate of Stellite 6 coatings manufactured by LMD using Machine Learning**

*Ricardo Antonio Cázares Vázquez, Viridiana Humarán Sarmiento, Ángel Iván García Moreno*

**Keynote Speaker 5** **10:00**

**Using Embodied Conversational Agents and Antromorphic Objects to Interact More Naturally in Smart Environments**

**Dr. Matthias Wölfel**, Karlsruhe University of Applied Sciences, Germany

Session Chair: Dr. Ahmed Assimi, Faculty of Science, Agadir, Morocco

Room: AMPHI

**Keynote Speaker 6** **11:00**

**WSNs, IoT, and Big Data Technologies as Enablers for the Development of Context-driven Applications**

**Dr. Mohamed BAKHOUYA**, International University of Rabat, Morocco

Session Chair: Dr. Said Agoujil, ENCG-UMI, Errachidia, Morocco

Room: AMPHI

**Coffee Break** **12:00**

Room: Meeting Foyer

**ICAISE-Poster Session** **12:15**

Room: Meeting Foyer

**LUNCH** **14:15**

**Keynote Speaker 7** **15:30**

**Towards trustworthy Artificial Intelligence enabled assistive healthcare technologies**

**Dr. Amir Hussain**, Edinburgh Napier University, UK

Session Chair: Dr. Said Ziani, ENSAM-UM5, Rabat, Morocco

Room: AMPHI

**Technical Sessions** **16:30**

**ICAISE-S10: Internet Of Things & Network**

**Session Chair:** Dr. Mourade Azrou, FSTE, UMI, Morocco

Dr. Fatima Amounas, FSTE, UMI, Morocco

**Room:** AMPHI

**Artificial Intelligence-Based VGG models for smart detection of surface defects in solar panels**

*Naima El yanboiy, Mohamed Khala, Ismail Elabbassi, Nourddine Elhajrat, Omar Eloutassi, Youssef El hassouani, Choukri Messaoudi*

**Classification algorithms implementation for fire prevention data on multiple wireless node sensors**

*Oumayma El gatte, Ahmed El Abbassi, Omar Mouhib, Dahbi Aziz*

**An Advanced Modified Freeman Chain Code Algorithm for Enhancing Arabic Character ecognition**

*Fethi Mohamed Rida, Othmane Farhaoui, Imad Zeroual and Ahmad El Allaoui*

**A new miniaturized ultra-wideband high-isolated two-port MIMO antenna for 5G millimeter-wave applications**

*Ouafae Elalaouy, Mohammed El Ghzaoui And Jaouad Foshi*

**ICAISE-S11: Adaptive Systems, Artificial Intelligence and Applications**

**Session Chair:** Dr. Youssef Qaraai, FSTE, UMI, Morocco

Dr. Ahmed El Abbassi, FST-UMI, Errachidia, Morocco

**Room:** Room1

**A smart mathematical approach to resource management in cloud based on multi-objective optimization and deep learning**

*Ait El Mouden Raja And Asimi Ahmed*

**How can Cloud BI contribute to the development of the economy of SMEs? Morocco as model**

*Najia Khouibiri, Youssef Farhaoui*

**Development and Examination of a 2.4 GHz Rectangular Patch Microstrip Antenna Incorporating Slot and Dielectric Superstrates**

*Ibrahim Khouyaoui, Mohamed Hamdaoui, And Jaouad Foshi*

**Towards the establishment of a digital culture within organizations for effective management control**

*Lali Khalid, Nou Mohamed*

**ICAISE-S12: Adaptive Systems, Artificial Intelligence and Applications**

**Session Chair:** Dr. Said Agoujl, ENCG-UMI, Errachidia, Morocco

Dr. Amine Tilioua, FST-UMI, Errachidia, Morocco

**Room:** Room2

**Design and optimization of a compact Microstrip bandpass filter using on open loop rectangular resonators for wireless communication systems**

*Youssef Khardioui, Kaoutar Elbakkar, Ali El Alami, Mohammed El Ghzaoui*

**Classification of diseases in tomato leaves with Deep Transfer Learning**

*Noredine Hajraoui, Mourade Azrou, Ahmad El Allaoui*

**CNN-LSTM approach for forecasting daily maximum and minimum temperatures: A Case Study of Southeast Morocco**

*Mohamed Khala, Naima Elyanboiy, Ismail Elabbassi, Mohammed Halimi, Omar Eloutassi, Youssef El Hassouani, Choukri Messaoudi*

**Deep Feature-Based Matching of High-Resolution Multitemporal Images Using VGG16 and VGG19 Algorithms**

*Omaima El bahi, Ali Omari Alaoui, Youssef Qaraai, Ahmad El Allaoui*

**ICAISE-S13: Internet Of Things & Adaptive Systems**

**Session Chair:** Dr. Azidine Geuzzaz, EST Essaouira, University of Cadi Ayyad, Morocco

**Room:** Online

**Sustainability in Internet of Things: Insights & Scope**

*Swati Sharma*

**A Whale Optimization Algorithm Feature Selection model for Detecting Intrusion in IoT Environments**

*Mouaad Mohy-eddine, Azidine Guezzaz, Said Benkirane, Mourade Azrou, and Kamal Bella*

**Using Artificial Intelligence (AI) Methods on the Internet of Vehicles (IoV): Overview and Future Opportunities**

*Adnan El Ahmadi, Otman Abdoun, El Khatir Haimoudi*

**IoT in Agriculture: Security Challenges and Solutions**

*Khaoula Taji, Ilyas Ghanimi, Fadoua Ghanimi*

**Comparative study between Fractional Linear Quadratic Regulator (Frac-LQR) and Sliding Mode Controller for the stabilization the Three-Axis attitude control system of LEO Satellite using Reaction Wheels**

*Taha Ennaciri, Ahmed El abbassi, Nabil Mrani and Jaouad Foshi*

**A Collaborative Anomaly Detection Model using Ensemble Learning and Blockchain**

*Chaimae Hazman, Azidine Guezzaz, Said Benkirane, Mourade Azrou, and Sara Amaouche*

### ICAISE-S14: Smart Environment & Urbanization Applications

**Session Chair:** Dr. Said Benkirane, EST Essaouira, University of Cadi Ayyad, Morocco

Dr. Bouchaib CHERRADI, Chouaib Doukkali, University, Morocco

**Room:** Online

#### The smart tourist destination as a smart city project

*Kacem Salmi And Aziz Hmioui*

#### Acceptance and Barriers of ICT Integration in Language Learning: In the Context of Teacher Aspirants from a Third World Country

*Kristine May C. Marasigan, Bernadeth Abequibel, Gadzfar Haradji Dammang, John Ryan Cepeda, Izar U. Laput, Marisol Tubo, Jovannie Sarona*

#### Technology in Education: An Attitudinal Investigation among Prospective Teachers from a Country of Emerging Economy

*Manilyn A. Fernandez, Cathy Cabangcala, Emma Fanilag, Ryan Cabangcala, Keir Balasa, and Ericson O. Alieto*

#### Reading in the 21st Century: Digital Reading Habit of Prospective Elementary Language Teachers

*Loise Izza Gonzales, Radam Jumadil Yusop, Manilyn Miñoza, Arvin Casimiro, Aprilette Devanadera and Alexandhrea Hiedie Dumagay*

#### Unleashing collective intelligence for Innovation: A literature review

*Ghita Ibrahim, Wijdane Merioumi, Bouchra Benchekroun*

#### Performances Evaluation of Intrusion Detection System using Gradient Boost

*Sara Amaouche, Azidine Guezzaz, Said Benkirane, Mourade Azrour, and Chaimae Hazman*

#### Blockchain and Machine Learning Applications in Overcoming Security Challenges for CPS and IoT Systems.

*Kamal Bella, Azidine Guezzaz, Said Benkirane, Mourade Azrour, and Mouaad Mohy-eddine*

#### Blockchain and Reputation Based Secure Service Provision in Edge-cloud Environments

*Tarik Chanyour, Seddiq El Kasmi Alaoui, Abdelhak Kaddari, Youssef Hmimz, And Zouhair Chiba*

### Coffee Break

17:30

Room: Meeting Foyer

### Technical Sessions

17:45

### ICAISE-S15: Adaptive Systems, Artificial Intelligence and Applications

**Session Chair:** Dr. Imad Zeroual, FSTE, UMI, Morocco

Dr. Mohammed Merzougui, FSJES, Oujda, Morocco

**Room:** AMPHI

#### Comparative study on ML-based decision-making for microgrid component operation

*Ismail Elabbassi, Mohamed Khala, Naima Elyanboiy, Omar Eloutassi, Youssef El hassouani and Choukri Messaoudi*

#### A new fast algorithm for Computation of on finite Fermat fields

*Mohamed Bamarouf, Ahmed Asimi, Lahdoud Mbarek*

#### A Novel Approach for Arabic character Recognition using Hybrid SIFT -SVM

*Othmane Farhaoui, Mohamed Rida Fethi, Imad Zeroual and Ahmad El Allaoui*

#### Multi-Agent Simulation of Traffic Flow and Collision Detection using GAMA

*Mourad Haddioui, Saleh Bouarafa, Youssef Qaraai, Said Agoujil, And Abderrahman Bouhamidi*

#### Study of phosphoric acid slurry rheological behavior in the attack reactor and development of an artificial neural network model to control its viscosity

*Ahmed Bichri, Hamid Mazouz, Souad Abderafi*

### IWEERE-S2: Electrical Engineering and Renewable Energy

**Session Chair:** Dr. Said Ziani, ENSAM-UM5, Rabat, Morocco

**Room:** Room 1

#### Virtual Machine Selection in Mobile Edge Computing: Computing Resources Efficiency

*Sara Maftah, Mohamed El Ghmary, and Mohamed Amnai*



**Query Optimization using Indexation techniques in Datawarehouse: Survey and Use Cases**

*Mohamed Ridani and Mohamed Annai*

**Examples of Diophantine equations**

*Said Essahel and Mohamed M. Zarrouk*

**Sentiment Analysis by Deep Learning Techniques**

*Rachidi Abdelhamid, Ouacha Ali and El Ghmary Mohamed*

**Miniaturized 2.45 GHz Metamaterial antenna**

*Abdel-Ali Laabadli, Youssef Mejdoub, Abdelkebir El Amri and Mohamed Tar-bouch*

**IWEERE-S3: Electrical Engineering and Renewable Energy**

**Session Chair:** Dr. Youssef Mejdoub, EST, Hassan II University, Casablanca, Morocco

Dr. Elamri Abdelkebir, EST, Hassan II University, Casablanca, Morocco

**Room:** Room 2

**On the Finitude of the tower of quadratic number Fields**

*Said Essahel*

**Enhancing Conducted EMI Mitigation in Boost Converters: A Comparative Study of ZVS and ZCS Techniques**

*Zakaria M'barki, Ali Ait Salih, Youssef Mejdoub, and Kaoutar Senhaji Rhazi*

**Solar irradiation prediction and Artificial Intelligence for Energy Efficiency in sustainable buildings, Case of Errachidia, Morocco**

*Imad Laabab, Said Ziani, Abdellah Benami*

**Efficient Virtual Machine Selection for Improved Performance in Mobile Edge Computing Environments**

*Nouhaila Moussammi, Mohamed El Ghmary, and Abdellah Idrissi*

**IWISEN-S2: Intelligent Systems and Emergent Networks**

**Session Chair:** Pr. Said HRAOUI, ENSA, USMBA, Fes, Morocco

Pr. Younes BALBOUL, ENSA, USMBA, Fes, Morocco

Pr. Hatim AMEZIANE, ENSA, USMS, Khouribga, Morocco

**Room:** Online

**Security of IoT-Cloud Systems based Machine Learning**

*Ouijdane Fadli, Younes Balboul, Mohammed Fattah, Said Mazer and Moulhime El bekkali*

**Preventing Users from obtaining False Data in Named Data of Health Things**

*Asmaa El-Bakkouchi, Mohammed El Ghazi, Anas Bouayad, Mohammed Fattah and Moulhime El Bekkali*

**Optimizing IoT Workloads for Fog and Edge Scheduling Algorithms: A Comparative Study**

*Saad-Eddine Chafi, Balboul Younes, Mohammed Fattah, Said Mazer and Moulhime El Bekkali*

**Anomaly Detection in IoT Networks - Classifications and Analysis Techniques**

*Hamza Rhachi, Anas Bouayad, Younes Balboul, Badr Aitmessaad*

**Analyzing and detecting malware using machine learning and deep learning**

*Badr Ait Messaad, Kaouthar Chetioui, Younes Balboul, Hamza Rhachi*

**Lateral Control Using a Homogenous Control Law for an Autonomous Vehicle**

*Ayoub Belkheir, El Mehdi Mellouli, Ismail Boumhidi*

**Traffic Lights Control Using Reinforcement Learning: A Comparative Study**

*Khalid Errajaji, Anas Bouayad, Khalid Fardousse*

**Fixed-Time Sliding Mode Control for a Drone Quadrotor**

*Najlae Jennan, El Mehdi Mellouli, Ismail Boumhidi*

**Application of Distributed Consensus in Fixed Time Sliding Mode to the Wind Turbine System**

*Sanae El Bouassi, El Mehdi Mellouli and Zakaria Chalh*

### ICAISE-S16: Big Data & Data Science

**Session Chair:** Dr. Anouar Ragraoui, University of Abdelmalek Essaadi, Morocco

Dr. Nabil Kannouf, University of Abdelmalek Essaadi, Morocco

**Room:** Online

#### **Big Data Analytics in Business Process: Insights & Implications**

*Swati Sharma*

#### **Information Visualization of Research Evolution on Innovation in Local Wisdom: A Decade Bibliometric Analysis using the Scopus Database**

*Tutut Herawan, Kris Cahyani Ermawati, John J.O.I Ihalauw, Damiasih Damiasih, and Suhendroyono Suhendroyono*

#### **Visualizing Trends in Tourism Entertainment Researches: Bibliometric Analysis using the Scopus Database**

*Tutut Herawan, Fera Dhian Anggraini, John J.O.I Ihalauw, Tonny Hendratono, Damiasih Damiasih, and Suhendroyono Suhendroyono*

#### **The Transformation Method from Business Processes Models by BPMN to Use Cases Diagram by UML in Agile Methods**

*Ouzayr Rabhi, Saida Filali, Mohammed Erramdani*

#### **Securing Big Data: Current Challenges and Emerging Security Techniques**

*Ikram Hamdaoui, Khalid El Makkaoui, Zakaria El Allali*

#### **Sentiment Analysis Based on Machine Learning Algorithms: Application to Amazon product reviews.**

*El Rharroubi Mohamed Amine*

#### **A Machine Learning Based Approach to Analyze the Relationship Between Process Variables and Process Alarms**

*Sarafudheen Tharayil; Paul Rodrigues; Ayman Qahmash; Sajeer Karattil; M.A. Krishna Priy*

### ICAISE-S17: Adaptive Systems & Networks & Security & Blockchain Solutions

**Session Chair:** Dr. Anouar Ragraoui, University of Abdelmalek Essaadi, Morocco

Dr. Imad Badi, University of Abdelmalek Essaadi, Morocco

**Room:** Online

#### **An Overview of blockchain-based electronic health record and compliance with GDPR and HIPAA**

*Nehal Ettaloui, Sara Arezki, Taoufiq Gadi*

#### **A Literature Review of Tutoring Systems: Pedagogical Approach and Tools**

*Hibbi Fatima-Zohra*

#### **Dataset and Deep Learning-based models to control Epidemic Disease: Case study of Cutaneous leishmaniasis in the Ouarzazate (south-east of Morocco).**

*Adnane Hakem, Idriss Boutayamou, Brahim El Houate*

#### **Logistics blockchain: Value-creating technology for the Port of Casablanca's Container Terminal**

*Fouguig Nada*

### ICAISE-S18: Adaptive Systems, Artificial Intelligence and Applications

**Session Chair:** Dr. Nabil Kannouf, University of Abdelmalek Essaadi, Morocco

Dr. Abdelkhalak Bahri, University of Abdelmalek Essaadi, Morocco

**Room:** Online

#### **The Effect of Employment Mobility and Spatial Proximity on the Residential Attractiveness of Moroccan Small's Cities: Evidence from Quantile Regression Analysis.**

*Sohaib Khalid, Driss Effina, Khaoula Rihab Khalid*

#### **Combining Transfer Learning with CNNs and Machine Learning Algorithms for Improved Brain Tumor Classification from MRI**

*Abd Allah Aouragh and Mohamed Bahaj*

#### **Artificial Intelligence And Dentistry: What We need To Know?**

*Ait Addi Rachid, Benksim Abdelhafid, Cherkaoui Mohamed*

#### **Skin lesion classification based on Vision Transformer (ViT)**

*Rahmouni Abla, Sabri My Abdelouahed, Ennaji Asmae, and Aarab Abdellah*

Saturday, November 25, 2023

**Keynote Speaker 8** **09:00**

**Neurodegenerative Disease Detection Using Medical Imaging**

**Dr. Manju Mandot**, JRN, Rajasthan Vidhyapeeth University, Udaipur. India

Session Chair: **Dr. Imad Zeroual**, FST, UMI, Morocco

Room: AMPHI

**Keynote Speaker 9** **10:00**

**Facial Expression Recognition based on Deep Learning Models**

**Dr. Jianhua Zhang**, Metropolitan University, Norway

Session Chair: **Dr. El Arbi Abdellaoui Alaoui**, ENS, Moulay Ismail University of Meknes, Morocco

Room: AMPHI

**Coffee Break** **11:00**

Room: Meeting Foyer

**Keynote Speaker 10** **11:15**

**Machine Learning for Detecting Internet Traffic Anomalies**

**Dr. Ljiljana Trajkovic**, Simon Fraser University, Canada

Session Chair: **Dr. Mourade Azrou**, FST, UMI, Morocco

Room: AMPHI

**Technical Sessions** **12:15**

**ICAISE-S19: Artificial Intelligence Solutions in Health**

**Session Chair:** Dr. El Wardani DADI, University of Abdelmalek Essaadi, Morocco

**Room:** Online

**Early Detection of Breast Cancer Based on Patient Symptom Data Using Naive Bayes Algorithm on Genomic Data**

*Agus Perdana Windarto, Tutut Herawan, and Putrama Alkhairi*

**Prediction of Kidney Disease Progression using K-Means Algorithm Approach on Histopathology Data**

*Agus Perdana Windarto, Tutut Herawan, and Putrama Alkhairi*

**Predicting Ejection Fractions from Echocardiogram Videos Using Deep Learning**

*Donya hassan ,ali obied*

**BERT-based models with BiLSTM for self-chronic stress detection in tweets**

*Mohammed Qorich and Rajae El Ouazzani*

**Risks of Energy-Oriented Attacks On Mobile Devices**

*Ayyoub El Outmani, Miloud Jaara, And Mostafa Azizi*

**Medical Image Compression Using Discrete Wavelet Transform**

*Hashim Adnan and Ali Obied and Ali Al-Fayadh*

**XAI for cardiovascular disease prediction**

*Nabaouia Louridi, Samira Douzi, Bouabid El Ouahidi*

### ICAISE-S20: Adaptive Systems, Artificial Intelligence and Applications

**Session Chair:** Dr. Chawki El Balmany, ENSA-Khouribga, SMS University, Morocco

Dr. Fayçal MESSAOUDI, ENCG, Sidi Mohamed Ben Abdellah University, Morocco

**Room: Online**

#### **An intelligent model for detecting obstacles on sidewalks for visually impaired people**

*Ahmed Boussihmed, Khalid El Makkaoui, Abdelaziz Chetouani, Ibrahim Ouahbi, and Yassine Maleh.*

#### **Adaptive E-learning to Improve Communicative Skills of Learners with Autism Spectrum Disorder using Eye Tracking and Machine Learning**

*Fatima Zohra Lhafra and Otman Abdoun*

#### **Effect of the integration of information and communication technology on the motivation and learning of electricity lessons for high school students in Morocco.**

*Hassan Yakkou, Abdelhakim Chillali, Nacer Eddine Elkadri El Yamani, Abdelaaziz El Ansari, Aziz Taoussi*

#### **Exploring the Impact of Deep Learning Techniques on Evaluating Arabic L1 Readability**

*Safae Berrichi, Naoual Nassiri, Azzeddine Mazroui, and Abdelhak Lakhouaja*

#### **Detection and classification of logos and trademarks from images**

*Assia Ennoui, My Abdelouahed Sabri, And Abdellah Aarab*

#### **Significance and Impact of AI on Pedagogical Learning: A Case Study of Moroccan Students at the Faculty of Legal and Economics.**

*Khoul Mohamed, Zineb Elkaimbillah, and Bouchra El Asri*

### ICAISE-S21: Adaptive Systems, Artificial Intelligence and Applications

**Session Chair:** Dr. Zouhaier Brahmia, University of Sfax, Tunisia

**Room: Online**

#### **Intrusion Detection in Software-Defined Networking using Machine Learning Models**

*Lamia Boukraa, Siham Essahraoui, Khalid El Makkaoui, Ibrahim Ouahbi, and Redouane Esbai*

#### **Deep learning approaches for stock price forecasting Post Covid19: a survey**

*El Qarib Mohamed, Ababou Nabil*

#### **Design of Artificial Neural Network Controller for Photovoltaic System**

*Benchikh Salma, Jarou Tarik, Boutahir Mohamed Khalifa, Nasri Elmehdi, Lamrani Roa*

#### **Deep Learning for Dynamic Content Adaptation: Enhancing User Engagement in E-Commerce**

*Raouya El Youbi, Fayçal Messaoudi, Manal Loukili*

#### **Facial Expression Recognition**

*Ouhammou Mohamed, Ababo Nabil*

#### **Face and eye detection using skin color and Viola-Jones detector**

*Hicham Zaaraoui, Samir El Kaddouhi And Mustapha Abarkan*

#### **The Impact of Artificial Intelligence on Supply Chain Management in Modern Business**

*Mitra Madancian, Hamed Taherdoost, Maassoumeh Javadi, Inam Ullah Khan, Alaeddin Kalantari, Dinesh Kumar*

### ICAISE-S22: Adaptive Systems, Artificial Intelligence and Applications

**Session Chair:** Dr. Badraddine Aghoutane, FS-UMI, Meknes, Morocco

Dr. Sabri Abdelouahed, USMBA, Fes, Morocco

**Room: Online**

#### **Machine Learning in Finance Case of Credit Scoring**

*El Maanaoui Driss - Jeaab Khalid - Najmi Hajare - Saoudi Youness - Falloul Moulay El Mehdi*

#### **Deep learning approaches for stock price forecasting Post Covid19: a survey**

*El Qarib Mohamed, Ababou Nabil*

#### **Face and eye detection using skin color and Viola-Jones detector**

*Hicham Zaaraoui, Samir El Kaddouhi And Mustapha Abarkan*

#### **TempoJCM++: An Extension of TempoJCM to Support Schema Change Modeling**

*Zouhaier Brahmia, Safa Brahmia, Fabio Grandi, and Rafik Bouaziz*

#### **Lithium-Ion Battery State of Charge Estimation Using Least Squares Support Vector Machine**

*Elmehdi Nasri, Tarik Jarou, Abderrahmane Elkachani, Salma Benchikh*

#### **Facial Expression Recognition**

*Mohamed Ouhammou, Nabil Ababou*



### ICAISE-S23: Adaptive Systems, Artificial Intelligence and Applications

**Session Chair:** Dr. Tarik Ahajjam, Hassan II University, Morocco

**Room:** Online

#### **Understanding and Designing Turing Machines with applications to computing**

*Serafeim A. Triantafyllou*

#### **ChatGPT For A Flexible Higher Education: A Rapid Review of the Literature**

*Abdelmajid Elhajoui , Otmane Yazidi Alaoui , Omar El Kharki, Miriam Wahbi , Hakim Boulassel , Mustapha Maatouk*

#### **A detailed study on the Game of Life**

*Serafeim A. Triantafyllou*

#### **Classification algorithms implementation for fire prevention data on multiple wireless node sensors**

*Oumayma Elgatte, Ahmed Elabbassi, Omar Mouhib,,Aziz Dahbi*

### ICAISE-S24: Adaptive Systems, Artificial Intelligence and Applications

**Session Chair:** Dr. Tarik Chanyour, Hassan II University, Morocco

Dr. Bouchaib CHERRADI, Chouaib Doukkali, University, Morocco

**Room:** Online

#### **Mechanical Intelligence Techniques for precision agriculture: A Case Study with Tomato Disease Detection in Morocco**

*Bouchra El Jgham, Otman Abdoun and Haimoudi El Khatir*

#### **Anime Link Prediction using Improved Graph Convolutional Networks**

*Safae Hmadi, Yassine Afoudi , Mohamed Lazaar And El Madani El Alami Yasser*

#### **Artificial Intelligence Capability for Auditing**

*Rafael Pires de Almeida and Selma Oliveira*

#### **Enhancing Cloud-based Machine Learning Models with Federated Learning Techniques**

*Rejuwan Shamim, Yousef Farhaoui*

#### **Digitally-Enabled Labor Market: The Dark Side of Digital Transformation**

*Kethellen S. da Silva, Ana Clara N.G. Cardoso, Selma R.M. Oliveira, José Cláudio G. Damaso*

### ICAISE-S25: Adaptive Systems, Artificial Intelligence and Applications

**Session Chair:** Dr. Seddiq El Kasmi, Hassan II University, Morocco

**Room:** Online

#### **Novel Machine Learning Approach for an Adaptive Learning System Based on Learner Performance**

*Aymane Ezzaim , Aziz Dahbi, Abdelhak Aqqal and Abdelfatteh Haidin*

#### **Anime Link Prediction Using Improved Graph Convolutional Networks**

*Safae Hmadi, Yassine Afoudi, Mohamed Lazaar And El Madani El Alami Yasser*

#### **An efficient driver monitoring: road crash and driver behavior analysis**

*Mohammed Ameksa, Zouhair Elamrani Abou Ellassad,Hajar Mousannif*

#### **Prompt Engineering: User Prompt Meta Model for GPT based Models**

*Hamza Tamenaoul, Mahmoud El Hamlaoui and Mahmoud Nassar*

#### **Representation of a GED functionality in the transformation of the BPMN Model to the UML Model using the MDA Approach**

*Soufiane hakkou,Redouane Esbai, Lamlili El mazoui nadori Yasser*

#### **Leading with Intelligence: Harnessing Machine Learning for Effective Leadership**

*Mitra Madancian, Hamed Taherdoost, Nachaat Mohamed, Alaeddin Kalantari*

**ICAISE-S26: Adaptive Systems, Artificial Intelligence and Applications**

**Session Chair:** Dr. Aziz Khamjane, University of Abdelmalek Essaadi, Morocco

Dr. Zouhair Chiba, Ain Chock Faculty of Sciences-UH2, Morocco

**Room:** Online

**Assessing the Evolution of Meteorological Seasons and Climate Changes using Hierarchical Clustering**

*Mohamed Lazaar, Hamza Ba-mohammed, Hicham Filali, and Yasser El Madani El Alami*

**Prediction of learner performance based on self-esteem using machine learning techniques: Comparative analysis**

*Aymane Ezzaim, Aziz Dahbi, Abdelhak Aqqal and Abdelfatteh Haidin*

**Ai-Assisted English Language Learning Challenges Investigation Of Esl Students' Beliefs And And Teaching In A Developing Country: An And Teaching In A Developing Country: An Investigation Of Esl Students' Beliefs And Challenges**

*Nochefranca, Gemma Amante; Sandal, Olga Orbase; Alieto, Ericson Olario; Laput, Izar Usman; Albani, Salman Ebod; Lucas, Rochelle Irene; Tanpoco, Manuel*

**Extracting IT Knowledge Using Named Entity Recognition Based on BERT from IOB Annotated Job Descriptions**

*Zineb Elkaimbillah, Maryem Rhanoui, Mounia Mikram, Mohamed Khoul and Bouchra El Asri*

**Performance Analysis of Two Serial Concatenations of Decoders over a Rayleigh Channel**

*S. El Kasmi Alaoui, H. Faham, T. Chanyour, M. El Assad, Z. Chiba And S. Nouh*

**UV-Nets: Semantic Deep Learning Architectures for Brain Tumor Segmentation**

*Ilyasse Aboussaleh, Jamal Riffi, Khalid El Fazazy, Adnane Mohamed Mahraz and Hamid Tairi*

**Comparative Review: Leadership Styles in the Context of Smart Environments**

*Mitra Madanchian, Hamed Taherdoost, Nachaat Mohamed*

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