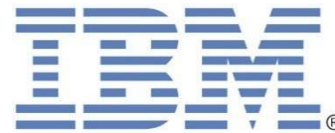


20th International ACS/IEEE International Conference
on Computer Systems and Applications
AICCSA 2023
December 4-7, 2023
Program



Ministry of Communications
and Information Technology



Monday, December 4 2023

08:00-09:00	Onsite registration
<p align="center">Opening session and Keynote Talks (Click here - Passcode: t7Qtyz) – 9am to 11:15am</p>	
<p>09:00-09:45 <i>Rooms</i> <i>Theatre</i></p>	<p>Opening & Welcome Chairs:</p> <ul style="list-style-type: none"> ○ Dr. Hisham A. Kholidy SUNY Polytechnic Institute, USA ○ Dr. Elhadj Benkhelifa, Staffordshire University, UK ○ Steering Committee Chair: Dr. Salim Hariri, University of Arizona, USA ○ NTI Director: Dr. Ahmed Khattab. ○ Minister of Communication and Information Technology (MCIT): Dr. Amr Talaat
<p>09:45-10:30 <i>Rooms</i> <i>Theatre</i></p>	<p>Keynote speaker: Prof. Ahmed Hassan, Vice President for Academic Affairs (EUI) & IEEE Section Chair Keynote Title: <i>Mobile Development Code Conversion: Achievements and Challenges</i> Chair: Dr. Hisham A. Kholidy</p>
<p>10:30-11:15 <i>Rooms</i> <i>Theatre</i></p>	<p>Keynote speaker: Mr. Hesham Galal, Amazon Web Services (AWS) Keynote Title: <i>Advancing the Frontiers of Science using AWS</i> Chair: Dr. Salim Hariri, Arizona University, USA</p>
<p>11:15-11:45</p>	<p align="center">Coffee Break</p>
<p>11:15-12:45</p>	<p>Track 1, Session 1: Ubiquitous, Parallel and Distributed Computing (including cloud, IoT, network, sensors, blockchain technologies) Teams link: https://tinyurl.com/AICCSAtrack1</p> <p>Chair: Genoveva Vargas-Solar, Principal Scientist at CNRS, France Room-1</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Abderrahim Amlou, Amar Abane, Mheni Merzouki, Lydia Ait Oucheggou, Zineb Maasaoui, and Abdella Battou, <i>Automated Network Programmability Using OpenConfig YANG Models and NETCONF Protocol</i> - Ibtissem Brahmi, Emna Hajlaoui, Souhir Elleuch, Monia Hamdi and Faouzi Zarai, <i>New Polar code for 5G New Radio Network</i> - Nadia Boufares, Yosra Ben Saied and Leila Azouz Saidane, <i>EcoSnow: Advancing Green Energy Monitoring with distributed three dimensional Mobile Wireless Sensors Network</i> - Souheir Merkouche, Chafia Bouanaka, and Elhadj Benkhelifa, <i>A Petri Net-based Formal Modeling for Microservices Auto-scaling</i> - Ghofrane Fersi, Robert Fromm, Maximilian Weber, and Faouzi Derbel, <i>Wake-Up Receiver Based Routing Protocols in Internet of Things: A Survey</i> - Zineb Maasaoui, Mheni Merzouki, Anis Bekri, Amar Abane, Abdella Battou and Ahmed Lbath. <i>Design and Implementation of an Automated Network Traffic Analysis System using Elastic Stack.</i>

Track 6, Session 1: Multimedia, Computer Vision, and Image Processing

Chair: Chirine Ghedira-Guegan, University of Lyon 3, France

Room-2

Teams link: <https://tinyurl.com/AICCSAtrack6>

Presenters, Titles

- Nada Benabdessalam, Sabra Mabrouk and Faouzi Ghorbel, *BERTImages for Diabetic Retinopathy Classification*
- Adriel Araújo, Milena H. S. Issa, Angel Sanchez, Débora C. Muchaluat Saade, and Aura Conci, *A Thermographic Time Series Approach for Evaluating the Breast Cancer Treatment*
- Abdelkrim Sahnoune, Djamila Dahmani and Saliha Aouat, *A Novel Rule-Based Skin Detection Method using Principal Component Analysis-Based Dimensionality Reduction and Individual Contribution on Principal Components*
- Sara Abdelhakem, Soheir Basiony and Marwan Torki, *ConvMixer-UNet: A Lightweight Network for Breast Lesion Segmentation in Ultrasound Images.*
- Maira Moran, Larissa Aparecida Vaz Oliveira, Marcelo Faria, Luciana Bastos, Gilson Giraldi, Clarissa Canella, and Aura Conci, *Segmentation of skin layers in ultrasound images using a crowdsourcing and deep learning-based system.*

Track 4, Session 1: Artificial Intelligence & Cognitive Systems

Chair: Nadia Kabachi, Claude Bernard Lyon 1 University, France **Room-3**

Teams link: <https://tinyurl.com/AICCSA-track4>

Presenters, Titles

- Amani Khalifa, Fatma Bensaid, Yessine Hadj Kacem, and Zouhaier Jridi, *At-Risk Students Identification based on Machine Learning Approach: A Case Study of Computer Science Bachelor Student in Tunisia*
- Nada Matta, Marie Helene Abel and Hedi Karray, *Why Ethics is important to consider in AI ?*
- Alibek Jakupov, Besma Zeddini, Julien Longhi and Julien Mercadal, *Combining Stylometric and Sentiment Mining Approaches for Deceptive Opinion Spam Detection*
- Lamia Berkani, Ilyes Djerfaf and Mouaad Hamed Abdelouahab, *Sentiment based hybrid deep learning for recommender models*
- Nihad Fottouh and Sherin Moussa, *Zero-trust management using AI: Untrusting the trusted accounts in social media*

Workshop: Intelligent and Sustainable Vehicle Networking Workshop

Chair: Room-4

Teams link: <https://tinyurl.com/AICCSAworkshop>

Presenters, Titles

- Evrosina Amir, Shahinaz Al-Tabbakh, Samiha Beshay and Ibrahim Gomaa, *Performance Evaluation of VANET Statistical Broadcast Protocols for Smart Cities*
- Wafaa Radi, Hesham El-Badawy, Ahmed Mudassir and Hesham Kamel, *Traffic Accident Management System for Intelligent and Sustainable Vehicle Networking*
- Wafaa Radi and Hesham El-Badawy, *Enhanced Implementation of Intelligent Transportation Systems (ITS) based on Machine Learning Approaches*
- Rowayda Sadek and Alaa Khalifa, *Vision Transformer Based Intelligent Parking System for Smart Cities*
- Islam Abdel Halim and Hossam Fahmy, *Research Trends, Challenges, and Future Directions in Vehicular Networks*

Lunch
12:45-14:00

14:00-15:30
(concurrent sessions)
Rooms
Theatre

Track 1, Session 2: Ubiquitous, Parallel, and Distributed Computing (including cloud, IoT, network, sensors, blockchain technologies)

[Teams link](#)

Chair: Khouloud Boukadi, Faculty of Economics and Management of Sfax, Tunisia **Room-1**

Presenters, Titles

- Mariem Ben Hassine, Mohamed Hadj Kacem and Imen Tounsi, *Developing IoT-based Smart Health Monitoring Systems using DesignPatterns*
- Mohammad Ali Nemer, Joseph Azar, Abdallah Makhoul and Julien Bourgeois, *Lightweight Feature-based Priority Sampling for Industrial IoT Multivariate Time Series*
- Preet Patel, Tiwaloluwa Ojo, Faraaz Mohsin, Janajan Jeyabalan, Waleed El Alawi, George Daoud and Mohamed El-Darieby, *A BigData/Machine Learning system for Monitoring Road Surface Condition*
- Arunita Jaekel and Gnana Shilpa Nuthalapati, *Improving Channel Utilization in VANETs Using Q-Learning-Based Data Rate Congestion Control*
- Bamory Kone, Rima Grati, Bassem Bouaziz, and Khouloud Boukadi, *Computerized Irrigation Scheduling.*

Track 5, Session 1: Natural Language Processing

Chairs: Nada Matta, Université de Technologie de Troyes, France

Ali Jaoua, School of Computing and Data Science at Oryx Universal College, Qatar **Room-2**

[Teams link](#)

Presenters, Titles

- Fadi Zaraket, Mustafa Jarrar, Tymaa Hammouda, Daanish Masood Alavi and Martin Wahlisch, *Bayan: Yemeni, Iraqi, Libyan, and Sudanese Arabic Dialect Corpora with Morphological Annotations*
- Munir Majdalawieh, Haleama Al Sabbah, Anoud Bani Hani and Oluwasegun Adedugbe. *Semantic Knowledge Graphs for Scalable Knowledge Discovery and Acquisition in Public Health*
- Abdelmalek Berkani and Adrian Holzer, *Clustering analysis of metered Arabic poetry compositions*
- Abdelrahman Sakr and Marwan Torki, *AraPunc: Arabic Punctuation Restoration Using Transformers*
- Bilel Elayeb, Amina Chouigui and Myriam Bounhas, *Analogical Text Mining: Application to Arabic Text Summarization and Classification*
- Sonda Rekik, Maryam Elamine and Lamia Hadrach Belguith, *A Medical Chatbot for Tunisian Dialect using a Rule-Based and Machine Learning Approach*

Track 6, Session 2: Multimedia, Computer Vision, and Image Processing

Chair: Hedi Karray, INP-ENIT, University of Toulouse, France

Room-3

[Teams link](#)

Presenters, Titles

- Said Si-Kaddour, Larbi Boubchir and Boubaker Daachi, *Deep Face Recognition based on an Optimized Deep Neural Network using ZFNet*
- Vitor Souza Chagas, Gleber Teixeira, Andre Goncalves, Fernanda Passos and AuraConci, *A computer vision approach to calculate diameter, volume, velocity and flow rate of bubble leaks in offshore wells*
- Hamza Bouzid and Lahoucine Ballihi, *3D Facial Expression Recognition Using Spiral Convolutions and Transformers*
- Hasan Umut Suluhan, Serhan Gener, Alexander Fusco, Hasan Fatih Ugurdag and Ali Akoglu, *PyTorch and CEDR: Enabling Deployment of Machine Learning Models on Heterogeneous Computing Systems*
- Mourad A. Kenk, Mona A. Elsaidy, M. Hassaballah and Mahmoud Mansour, *Driving Perception in Challenging Road Scenarios: An Empirical Study*

Track 4, Session 2: Artificial Intelligence & Cognitive Systems

Chair: Nadia Kabachi, Claude Bernard Lyon 1 University, France

Room-4

[Teams link](#)

	<p>Presenters, Titles</p> <ul style="list-style-type: none"> - Emna Ayari, Sonia Nasri, Wassila Aggoune-Mtalaa, and Hend Bouziri, <i>Learning routes within an intelligent on demand transport service</i> - George Tsihrintzis, Maria Virvou, Filippos Palamidis, and Dimitrios Panagoulas, <i>Evaluation of ChatGPT-supported diagnosis, staging and treatment planning for the case of lung cancer</i> - Rahma Haouas Zahwanie, Lilia Cheniti-Belcadhi and Saoussen Layouni, <i>Towards Intelligent E-health Environment for Cerebral Palsy Children Rehabilitation</i> - Fatma Zahra Abdeldjouad, Menaouer Brahami and Mohammed Sabri, <i>Evaluating the Effectiveness of Artificial Intelligence in Predicting Adverse Drug Reactions among Cancer Patients: A Systematic Review and Meta-Analysis</i> - Haythem Ahmad Bany Salameh, Ayyoub Hussienat, Ahmad Al Ajloun, and Mohannad Alhafnawi, <i>Behavior-driven Indoor Multi-Target UAV-based Detection System: Intelligent RL-based Approach</i>
15:30-16:00	Coffee Break
<p>16.00-17.30 (concurrent sessions) Rooms Theatre</p>	<p>Track 1, Session 3: Ubiquitous, Parallel and Distributed Computing (including cloud, IoT, network, sensors, blockchain technologies) Teams link Chair: Hedi Karray, INP-ENIT, University of Toulouse, France Room-1</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Amar Abane, Abdella Battou, Abderrahim Amlou and Tao Zhang, <i>A Data Collection Platform for Network Management</i> - Sarra Abidi, Samir Toumi, Mehrez Essafi, Chirine Ghedira Guegan and Henda Hajjami Ben Ghezala, <i>Using a Correlation Equation to ensure Stability between Personalization and Security in Composing Web Services</i> - Ichiro Satoh, <i>Dynamic Deployment of Software for Edge-to-Cloud Continuum</i> - Soura Boulaares, Salma Sassi, Richard Chbeir, Djamel Benslimane and Sami Faiz, <i>Uncertainty-Aware Web of Things Composition: A Probabilistic Approach</i> - Helen Karatza, <i>A Hybrid Epoch Scheduling Scheme of Mixed Workloads with Different Types of Jobs on Distributed Processors</i> - Balqees Aldabaybah, Tawfiq Alrawashdeh, Talal Ashraf Butt and Khaled Almiani, <i>Fair-Share Methods for Scheduling Scientific Workflows in Cloud</i> <hr/> <p>Track 5, Session 2: Natural Language Processing Chair: Khouloud Boukadi, Tunisia - Ali Jaoua, School of Computing and Data Science at Oryx Universal College, Qatar Room-2 ; Teams link</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Achir Oukelmoun, Nasredine Semmar, Gaël de Chalendar, Enguerrand Habran, Eric Vibert, Emma Goblet, Mariame Oukelmoun and Marc-Antoine Allard, <i>A Study on the Relevance of Generic Word Embeddings for Sentence Classification in Hepatic Surgery</i> - Manel Chnini, Nissaf Fredj, Fatma Bensaïd and Yessine Hadj Kacem, <i>Violent Speech Detection in Educational Environments</i> - Nagham Hamad, Mustafa Jarrar, Mohammad Khalilia and Nadim Nashif, <i>A Dataset for Offensive Language Detection in Hebrew</i> - Guilhem Piat, Nasredine Semmar, Julien Tourille, Alexandre Allauzen and Hassane Essafi, <i>What does KnowBert-UMLS forget?</i> - Munir Majdalawieh, Haleama Al Sabbah, Anoud Bani Hani, Elhadj Benkhelifa and Oluwasegun Adedugbe, <i>Semantic Knowledge Graphs for Scalable Knowledge Discovery and Acquisition in Public Health</i>

Track 6, Session 3: Multimedia, Computer Vision, and Image Processing

Chair: Juba Agoun, Université Lumière Lyon 2

Room-3

[Teams link](#)

Presenters, Titles

- Fabien Poirier, Rakia Jaziri, Camille Srouf and Gilles Bernard, *Enhancing Anomaly Detection in Videos using a Combined YOLO and a VGG GRU Approach*
- Maykol Campos, Smith Arauco and Marco Pacheco, *Seismic Fault Segmentation Using Unsupervised Domain Adaptation*
- Xuelel Zheng, Mei Yu and Gangyi Jiang , *Quality Evaluation of Tone Mapping HDR Omnidirectional Image with Multi-regions and Multi-levels*
- Omar Wasfy, Sohier Basiony and Marwan Torki, *Enhancing LiDAR Semantic Segmentation Using Model Soups*
- Minhazul Arefin, Mojammel Hossen and Robin Khan, *pic2code: Generating HTML Code from Handwritten Picture*

Track 4, Session 3: Artificial Intelligence & Cognitive Systems

Chair: Nadia Kabachi, Claude Bernard Lyon University, France **Room-4**

[Teams link](#)

Presenters, Titles

- Yusra Rachidi and Ilyass Abouelaziz, *Graph-based indoor navigation system using BIM data and optimization algorithms*
- Theodore Ha, Sicong Shao and Salim Hariri, *An Explainable Outlier Detection-based Data Cleaning Approach for Intrusion Detection*
- Arwa Malik Almayahi, Maryam Said Obeid Alkaabi, Maryam Khamis Al-Sudiri and Senthilkumar Ramalingham, *Uptake of lead from aqueous solution using Strychnos Potatorum in an Environmental IoT System*
- Amira Mouakher, Sylvain Chatry and Samira El Yacoubi, *A Multi-criteria Evaluation Framework For Facial Expression Recognition Models*
- Genane Youness, Nu Uyen Thi Phan and Benjamin Cohen Boulakia, *BootBOGS: Hands-on optimizing Grid Search in hyperparameter tuning of MLP*
- Ilyass Abouelaziz and Youssef Mouchid, *A Framework for Building Point Cloud Cleaning, Plane Detection and Semantic Segmentation*

Tuesday, December 5 2023		
08:00-09:00	Onsite registration and Coffee	
9:00-09:45 <i>Rooms Theatre</i>	Keynote speaker: Prof. Claudio Ardagna, University of Milan - (Click here - Passcode: WbWb12) Keynote Title: <i>Rethinking Certification for Trustworthy Machine Learning-Based Applications</i> Chair: Chirine Ghedira-Guegan, University of Lyon 3, France	
09:45-10:30	Discussion Panel Dr Emad Abd-Elrahman	Workshop: First International Workshop on Modern Technologies for Natural Disasters Management (Session 1) Teams link Chairs: Room-1 Presenters, Titles <ul style="list-style-type: none"> - Moez Krichen and Dr. Mohamed Salah, <i>Advances in AI and Drone-based Natural Disaster Management: A Survey</i> - M. M.Sangeetha, R.Manjula Devi, Bhisham Sharma, Subrata Chowdhury and Imed Ben Dhaou, <i>MAM: Multimodal Attention Mechanism for Social Media Natural Disaster Management Tweet Classification</i> - Mohamed Abdalzaher, Moez Krichen, Sayed Moustafa and Mohannad Alswailim, <i>Using Machine Learning for Earthquakes and Quarry Blasts Discrimination</i> - Vartika Bhadana, Pooja Pathak, Anand Singh Jalal, Ashish Sharma, Bhisham Sharma and Imed Ben Dhaou, <i>An Ensemble-based Neural Network Model for Natural Disaster in 2019</i>
10:30- 11:15		
	Coffee Break & Best Poster Judging	

11:15-12:45
(concurrent
sessions)
Rooms
Theatre

Workshop: Federated Architectures & Testbeds Workshop on 5G and Beyond AND
The 1st International Workshop on Artificial Learning for Cyber Security

[Teams link](#)

Chair: Dr. Hisham A. Kholidy **Room-2**

Presenters, Titles

- Adda Boulem, Abdelkader Berrouachedi, Marwane Ayaida, Hisham Kholidy and Elhadj Benkhelifa, *A New Hybrid Cipher based on Prime Numbers Generation Complexity: Application in Securing 5G Networks*
- Hisham A. Kholidy, Keven Disen, Andrew Karam, Elhadj Benkhelifa, Mohammad A. Rahman, Atta-Ur Rahman, Ibrahim Almazyad, Ahmed F. Sayed and Rakia Jaziri, *Secure the 5G and Beyond Networks with Zero Trust and Access Control Systems for Cloud Native Architectures*
- Abdulbast A Abushgra, Hisham A Kholidy, Abdelkader Berrouachedi and Rakia Jaziri, *Innovative Routing Solutions: Centralized Hypercube Routing Among Multiple Clusters in 5G Networks*
- Samia Oukemini and Muslim Elkotob, *Adaptative Access Management in 5G IoE using Device Fingerprinting: Discourse, Mechanisms, Challenges, and Opportunities*
- Andre Manuel Macedo and João Paulo Magalhães, *Detection of Network Intrusions Using Anomaly Detection*

Workshop: First International Workshop on Modern Technologies for Natural Disasters Management (**Session 2**)

[Teams link](#)

Chairs: TbA **Room-3**

Presenters, Titles

- Moez Krichen and Mohammed Alzahrani, *Formal Methods for Enhanced Natural Disaster Management*
- Mohannad Alswailim, *Security and Privacy Challenges of Participatory Sensing in Natural Disaster Management*
- Mohammad Algarni, *Deploying Artificial Intelligence for Optimized Flood Forecasting and Mitigation*
- Zakaria Boulouard, Mariya Ouaisa, Mariyam Ouaisa, Moez Krichen, Mutiq Almutiq and Mohammad Algarni, *Streamlining River Flood Prevention with an Integrated AIoT Framework*
- Moez Krichen, *Efficient Approaches for Safeguarding Sensitive Data during Natural Disasters*

Hackathon Pitch
Judges

Lunch 12:45-14:00	
Coffee Break	
14:00-15:00 <i>Rooms</i> <i>Theatre</i>	Hackathon Pitch Judges
	Best Poster Judging Chair: Hedi Karray, INP-ENIT, University of Toulouse, France
15:00-16:00	Keynote speaker: Prof. Yu Chen - State University of New York (SUNY), USA (Click here - Passcode: v9Vk3K) Keynote title: Securing Truth: Technology's Role in Fighting Misinformation on Social Media Chair: Dr. Hisham A. Kholidy - Room-4
18.30-21.00	Gala Dinner Venue
Wednesday, December 6 2023	
08:00-09:00	Onsite registration and Coffee
9:00-11:15 (Parallel sessions)	Tutorial 1: How to extract knowledge from interactions: combining pragma-linguistics and knowledge engineering techniques. (Click here - Passcode: FzyMD5) Prof. Nada Matta, University of Technology of Troyes, France - Room-3
	Tutorial 2: Provenance-Based Data Curation: Unraveling Insights in Earth and Biodiversity Sciences (Click here) Prof. Khalid Belhajjame, University Paris-Dauphine, France Prof. Martin A. Musicante, Universidade Federal do Rio Grande do Norte-UFRN, Brazil Dr. Genoveva Vargas-Solar, Principal Scientist at CNRS, France Room-4
Women in STEM @ AICCSA2023 – In Memory of Prof Salima HASSAS Zoom link: https://tinyurl.com/AICCSAWSTEM	
11:15-12:45 <i>Rooms</i> <i>Theatre</i>	Keynote speaker: Sihem Amer-Yahia, CNRS Grenoble France Keynote Title: <i>Algorithmic Upskilling and the Question of Ethics in AIED</i> Chair: Chirine Ghedira-Guegan, University of Lyon 3, France
	Women in STEM Panel Chairs: Room-1 Genoveva Vargas Solar, CNRS, Lyon, France Chirine Ghedira-Guegan, University of Lyon 3, France
9:45-12:45	PhD Forum Chairs: Room-2 Zoom link: https://arizona.zoom.us/j/85341435953
Lunch 12:45-14:00	

14:00-15:30
(parallel
sessions)
Rooms
Theatre

Workshop 2: Advancements in Arabic NLP Leveraging Long Language Models and Knowledge Graphs

[Teams link](#)

Chairs: TbA ; Room-3

Presenters, Titles

- Sana Gayed, *Sentiment Analysis of Tunisian Dialect: the impact of dimensionality reduction*
- Khloud Khaled, Tasneem Wael, Salma Khaled, and Walaa Medhat, *Arabi Dialect Identification: Experimenting Pre-trained Models and Tools on Country-level Datasets*
- Heidi A. Holiel, Nancy M. Soliman, Arwa Othman, and Walaa Medhat, *English-Arabic Text Translation and Abstractive Summarization Using Transformers*
- Ahmed Tamer, Alamir Hassan, Asmaa Ali, Nada Salah and Walaa Medhat, *Fine Tuning of large language Models for Arabic Language*

Track 3, Session 1: Data Science, knowledge engineering, and ontologies (including Information Retrieval, Big Data, Databases, and Knowledge Systems)

[Teams link](#)

Chair: Sana Sallemi, Aix Marseille University, LIS Laboratory, France Room-4

Presenters, Titles

- Jesus Bobadilla and Abraham Gutierrez, *Generating and Testing Synthetic Datasets for Recommender Systems to Improve Fairness in Collaborative Filtering Research*
- Nourelhouda Hammouda, Mariem Mahfoudh, and Khoulood Boukadi, *MoonCAB: a Modular Ontology for Computational analysis of Animal Behavior*
- Fatma Abdelhedi, Hela Rajhi, and Gilles Zurfluh, *Conceptual modeling of a document-oriented NoSQL database*
- Houari Mahfoud, *Diversified Top-k Answering of Cypher Queries over Large Data Graphs*
- Rym Jemmali, Fatma Abdelhedi, and Gilles Zurfluh, *Medical data lake query assistance*

Track 2, Session 1: Security, Privacy, and Trust

Chair: Salim Hariri, University of Arizona, USA Room-1

[Teams link](#)

Presenters, Titles

- Hisham A. Kholidy, Abdelkader Berrouachedi, Elhadj Benkhalifa and Rakia Jaziri, *Enhancing Security in 5G Networks: A Hybrid Machine Learning Approach for Attack Classification*
- Imen Ben Ahmed, Farah Barika Ktata and Khalil Ben Kalboussi, *DLA-ABIDS: Deep Learning Approach for Anomaly Based Intrusion Detection System*
- Mudhafar Nuaimi, Lamia Chaari and Bassem Ben Hamed, *Ensemble Learning Approach for Intrusion Detection Systems in Industrial Internet of Things*
- Michael Lescisin and Qusay Mahmoud, *Design and Development of Policy Enforcement for the Privacy by Design Framework*
- Munir Majdalawieh, *Building Trust in Supply Chains: The Blockchain-QR Code Advantage*

Workshop: Artificial Intelligence for Predictive Maintenance and IIoT AND The Recommendation Systems Workshop AND Quantum Computing Applications and Security Workshop

[Teams link](#)

Chair: Nadia Kabachi, Claude Bernard Lyon 1 University, France **Room-2**

Presenters, Titles

- Tahenni Abdellah and Hab Fatma Zahra, *Quantum Computing for DNA Analysis and AI in Genomics*
- Ibrahima Barry and Meriem Hafsi, *Towards Hybrid Predictive Maintenance for Aircraft Engine: Embracing an Ontological-Data Approach*
- Ziqing Gong, Usama Mir and Harshkumar Patel, *Exploring the Complexities and Possibilities of Digital Twin Technology*
- Serine Guellab and Imane Benkhelifa, *Enhancing Parking Online Reservation with a Recommendation System based on User Preferences: A hybrid Approach*
- Mohamed Nadjib Kouahla, Adil Boughida and Akram Boughazi, *A data analysis and processing approach for a POI recommendation system*

15:30-16:00	Coffee Break & Closing
16:00-17:30 (parallel sessions) Rooms Theatre	<p>Workshop : 6 th international Workshop on Health Informatics: IT Innovations and Disruptive Approaches in the Digital Health Era (HOPE'23) Teams link</p> <p>Chair: Thomas Lux, Niederrhein University of Applied Sciences, Germany Room-3</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Mariam Jaber, Abdallah Karakra, Ruba Awadallah, Hafez Barghouthi, and Adel Taweel, Adapting the Software Development Life Cycle for Digital Twin Development in Healthcare - Linda Bouallegue, Rafika Thabet, Chabane Mazri, Adrien Defossez, Marie-Hélène Clesotrate and Elyes Lamine, Effective Tool for Reporting and Analyzing Medication Errors - Ghassen Frikha, Xavier Lorca, Pingaud Herve, Christophe Bortolaso, Katarzyna Borgiel and Elyes Lamine, Developing a Recommender System for Frailty Prevention: Addressing Challenges of Data Collection and User Interface Design - Simon Hensel, Benjamin Jagusch, and Thomas Lux, Introduction of Artificial Intelligence in Healthcare Lectures: An Evaluation - Ibrahim Traore, Imen Megdiche, Jérôme Marquet-Doléac and Lotfi Chaari, A machine learning technique for device non-wear detection in children with ADHD
	<p>Track 3, Session 2: Data Science, knowledge engineering, and ontologies (including Information Retrieval, Big Data, Databases, and Knowledge Systems) Teams link</p> <p>Chair: Bernard Archimede, ENIT – LGP, France ; Room-4</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Abdelhamid Gaddari, Haytham Elghazel, Rakia Jaziri, Mohand-Saïd Hacid and Pierre-Henri Comble, <i>A New Time-Aware LSTM based Framework for Multi-label Classification on Healthcare Data</i> - Heba Helal and Mohamed Sharaf, <i>TIVEx: Optimized Processing for Time Series Visual Exploration</i> - Genoveva Vargas-Solar, Chirine Ghedira-Guégan, Javier A. Espinosa-Oviedo and José-Luis Zechinelli-Martini. <i>Embracing Diversity and Inclusion: A Decolonial Approach to Urban Computing</i> - Kadhim Hayawi, Sakib Shahriar and Hany Alashwal, <i>Leveraging Nucleotide Dependencies for Improved mRNA Vaccine Degradation Prediction</i> - Felipe Borges, Smith Washington Arauco Canchumuni and Marco Aurelio Pacheco, <i>Assessing fuel tax revenues - Study on impact of reducing fuel taxes using artificial intelligence</i> - Ibrahim Traore, Imen Megdiche, Jérôme Marquet-Doléac and Lotfi Chaari, <i>A Cross-Validation Approach for Classifying Physical Activity Intensity: A Case Study in Children with Attention Deficit/Hyperactivity Disorder</i>

Track 2, Session 2: Security, Privacy, and Trust[Teams link](#)**Chair:** Abdallah Battou, NIST, USA - **Room 1****Presenters, Titles**

- Sylia Amarouche, Said Talbi, Mehammed Daoui and Jean-François Couchot, *2D-ZasHen Chaotic Map-Based Medical Image Cryptographic Approach in IoT-Based Healthcare Monitoring*
- Murad Mehrab Abrar and Salim Hariri, *An Anomaly Behavior Analysis Framework for Securing Autonomous Vehicle Perception*
- Marco De Vincenzi, Chiara Bodei and Ilaria Matteucci, *Securing Automotive Ethernet: Design and Implementation of Security Data Link Solutions*
- Juba Agoun, Juba Terras, Mohand-Saïd Hacid and Salim Hariri, *Empowering Data Federation Security in Polystore Systems*
- Likai Yao, Sicong Shao and Salim Hariri, *Resilient Machine Learning (rML) Against Adversarial Machine Learning Attacks on Industrial Control Systems*

Closing session and Awards announcement

7th Dec 2023

Social ActivityDetails

Poster

Dewan Ziaul Karim, Tasfia Anika Bushra, Shoaib Ahmed Dipu, Md Humaion Kabir Mehedi and Annajiat Alim Rasef	A Deep Learning Based Ensemble Approach for Gastrointestinal Disease Detection with XAI
Saad Aldoihi, Khalid Alblalaih, Fozah Alzemaia, Alyah Almoajel, Shatha Alwablely and Omar Hammami	A System Approach to Detect Medical Errors in Operational Data in Hospitals
Adnen Mahmoud and Mounir Zrigui	Attentional Context Embedding with Siamese Neural Network for Arabic Similarity Analysis
Olfa Ferchichi, Raoudha Beltaifa and Lamia Labeled	SysML block diagram, Product Line Engineering, Variability, Evolution, Artificial Intelligence Artifact, Ontology
Ibrahim Almazyad, Sicong Shao, Salim Hariri and Hisham Kholidy	Anomaly Behavior Analysis of Smart Water Treatment Facility Service: Design, Analysis and Evaluation
Zhu Li and Qi Xiangtao	Research on The Construction of Ontology-based Music Works Knowledge Base
Yang Fu and Marisol García-Valls	Security aspects of full-duplex web interactions
Farhat Rekaya, Bassem Bsir, Mounir Zrigui, Nafaa Haffar, Oussama Laaroussi and Henri Nicolas	Enhancing Object Detection in Natural Scene Images: A Deep Active Learning Approach for Traffic Sign and Panel Guide Content Annotation
Asma Omri, Djamal Benslimane and Mohamed Nazih Omri	A Possibilistic Approach: Syntactic Indexing Of Big Data In The Presence Of Uncertainty
Hanae Touati, Rafika Thabet, Franck Fontanili, Marie-Hélène Cleostrat, Marie-Noëlle Cufi and Elyes Lamine	Towards a novel Data Mining System for Medication Error Management

S M Rakib Hasan, Aakar Dhakal, Md Humaion Kabir Mehedi and Annajiat Alim Rasel	Analyzing Musical Characteristics of National Anthems in Relation to Global Indices
Dinesh Goyal, Aditya Sharma, Kamal Deep Garg, Bhisham Sharma and Imed Ben Dhaou	The Internet of Things (IoT) Contribution to Natural Disaster Management: Review
Amal Talbi and Mehrez Abdellaoui	Video saliency detection based on color-contrast, motion and texture distinctiveness model
Nesrine Hassini, Khaoula Mahmoudi and Sami Faiz	A Hybrid Approach for Spatial Information Extraction from Natural Language Text
Ahmed Missaoui, Cemalettin Ozturk and Barry O'Sullivan	Iterated Greedy Algorithms for Combinatorial Optimization: A Systematic Literature Review
Saurabh Saurabh Singhal, Bhisham Sharma, Ashish Sharma, Imed Ben Dhaou and Mahendra Kumar Gourisaria Kumar Gourisaria	A Disaster Management System Using Cloud Computing
Rahma Djioun, Lilia Lachachi, Noufel Azzouni, Meriem Guessoum, Kamel Boukhalfa and Elhadj Benkhelifa	Search Approach for External Data Sources for Data Warehouse Enrichment in Business Intelligence Context
Nada Farhani, Naim Terbeh and Mounir Zrigui	An overview of the Image Description Systems in Arabic Language
Amiru Ali	The factor effecting e Learning in continue education in Nigeria
Nehal Elkholy	"Telehealth as a Tool for Assessing and Monitoring COVID-19 Symptoms: Changes Over the Course of a Year"
Mohamed Nadjib Kouahla, Adil Boughida and Akram Boughazi	A data analysis and processing approach for a POI recommendation system
Other poster from authors and committee	