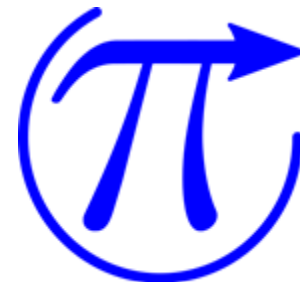


21th International ACS/IEEE International Conference
on Computer Systems and Applications
AICCSA 2024
October 22-26, 2024
Program



Tuesday, October 22 2024

09:00-11:00	Participants check-in
11:00-12:30	<p>PhD Forum, Sousse Room Chair: Ali Akoglu, University of Arizona, USA</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Jihed Hammami, Maha Khemaja, and José-Luis Sierra-Rodríguez, <i>An Interdisciplinary Model-Driven Approach for Flipped Learning Design and Enactment Integrating Gamification, Agile, BPMN, IoT, and AI</i> - Marwa Dorai, Mehrez Abdellaoui, Bouthaina Douh and Ali Douik, <i>Application Of Artificial Intelligence Techniques To Detect Water Stress</i> - Eya Abidi, Zayneb Trabelsi Ayoub and Sofiane Ouni, <i>Enhancing Speed and Quality of Somatic Variant Calling via Big Data Architecture and Deep Learning Models</i> - Chayma Zaâbi and Imen Boukhris, <i>Fine-Grained Sentiment Analysis in Financial Market</i> - Boughdiri Maher, Takoua Abdellatif and Chirine Ghedira, <i>Integrating Onchain and Offchain for Blockchain Storage as a Service (BSaaS)</i>
<p>Lunch 12:30-14:00</p>	
14:00-15:30 (parallel sessions)	<p>PhD Forum, Sousse Room Chair: Ali Akoglu, University of Arizona, USA</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Olfa Dallel, Souheil Ben Ayed and Jamel Bel Hadj Tahar, <i>Smart Software-Defined Perimeter Framework for Social Internet of Things</i> - Hiba Ouchene, Nadjia Benblidia and Melyara Mezzi, <i>Enhancing Medical Diagnosis Support through AI-Driven Semantic Classification of Breast Cancer Medical Texts</i> - Yassine Gacha and Takoua Abdellatif, <i>Real-Time Data Fusion for Optimized Emergency Response</i> - Abdellahi Krama and Sofiane Ouni, <i>Deep learning-based offload and load balancing in IoT Fog</i> - Mohamed Ali Bouri, Mohamed Habib Kammoun, and Mohamed Ali Hadj, <i>Holistic design of economical and secure Data Centers for developing countries: A free integrative approach</i> - Feriel Khennouche, Youssef Elmir, Nabil Djebari and Larbi Boubchir, <i>Improving User Experience for AI Chatbots through LLM Models</i>
	<p>The International Workshop on Modern Technologies for Natural Disasters Management (NaDiM), El-Jem Room Chair: Imed Ben Dhaou, Dar Al-Hekma University and University of Turku (Finland)</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Disha Thakur, Sanjay Kumar, Bisham Sharma and Imed Ben Dhaou, <i>Prediction of High Heating Value Using ANN Technique Aftermath Natural Disaster</i> - Zouheir Belfeki, Mondher Bouazizi, Moez Krichen and Salah Zidi, <i>Federated Learning for Wireless Sensor Networks in Natural Disaster Management</i>

	<p>The International Workshop on AI-Powered Smart Inclusion Systems (AISIS), Deep Learning for Natural Language Processing (DLNLP) & the 2nd International Workshop on Artificial Learning for Cyber Security (ALCS), Kairouan Room</p> <p>Chair: <i>TBA</i></p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Khadija El Azhari, Imane Hilal and Najima Daoudi, <i>Fostering inclusive, interactive, and collaborative learning with IKRAA features</i> - Marwen Bouabid, Olfa Daikhi and Mohamed Farah, <i>Real-Time Traffic Congestion Detection in Bogota Using Tweets: A Hybrid Approach Combining DistilBERT and BiLSTM</i> - Manel Chahed, Aref Meddeb and Amine Boufaied, <i>Simple ARQ Protocol for Reliable Transport in LowPANS</i>
15:30-16:00	Coffee Break
16.00-17.30 (parallel sessions)	<p>PhD Forum, Sousse Room</p> <p>Chair: Ali Akoglu, University of Arizona, USA</p> <p>Mentoring, Question and Answer Session - Elhadj Benkhelifa, Staffordshire University, UK</p>
	<p>Geo Big Data Track, Session 1, El-Jem Room</p> <p>Chair: Takoua Abdellatif, University of Sousse, Tunisia</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Hajer Ouerghi, Wided Soudene and Rabah Attia, <i>Traditional Fishery Charfia Detection in Kerkennah Islands using Very High Resolution Satellite Images Analysis</i> - Abdenneji Montassar, Tijeni Delleji, Feten Slimeni, Mohamed Ali Abid and Rabah Attia, <i>RF classification of UAVs using MLP model and Software Defined Radio</i> - Ghassen Graja and Takoua Abdellatif, <i>Integration of UAV and Satellite Data in Remote Sensing</i>
17.30-18:30	<p>Geo Big Data Track, Session 2, El-Jem Room</p> <p>Chair: Takoua Abdellatif, University of Sousse, Tunisia</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Leila Aissaoui, <i>Advancements in Pest Detection through Satellite Imagery and Artificial Intelligence for sustainable and smart agriculture</i> - Mohamed Amine Omrani and Wady Naanaa, <i>Advances in Molecular Graph Generation: Unraveling Symmetry and Enhancing Connectivity</i>
19:00	Welcome Ceremony

Wednesday, October 23 2024	
08:45-09:15	Onsite registration
09:15-09:30	Opening Ceremony – Sousse Room
09:30-10:30	<p>Sousse Room</p> <p>Keynote speaker: Pr. Schahram Dustdar TU Wien Austria – UPF, Barcelona Spain Pr. Richard Chbeir, Pau University, France</p> <p>Title: Towards Active Inference for Distributed Intelligence in the Computing Continuum / Data Engineering in IoT</p> <p>Chair: Sami Yanguï, INSA Toulouse, France</p>
10:30-11:00	Coffee Break
11:00-12:30 (parallel sessions)	<p>Second Symposium of Computing, Informatics, Multimedia, and Networking (CIMN), Session 1, Sousse Room</p> <p>Chair: TBA</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Thuy Le, <i>Hardware Accelerator for Parallel Neutron Transport Solver by MOC</i> - Khoulood Ammar, Wissem Inoubli, Sami Zghal and Engelbert Mephu Nguifo, <i>Scaling Knowledge Graph Embedding with Parallel TransE and Graph Partitioning</i> - Sondes Baccouri and Takoua Abdellatif, <i>Secure Surveillance System for Maritime Applications</i> - Islem Nafti and Imen Jemili, <i>Platooning authentication and group key generation scheme with intermittent V2I connectivity</i>
	<p>Track 1, Session 1, El-Jem Room: Ubiquitous, Parallel and Distributed Computing (including cloud, IoT, network, sensors, blockchain technologies)</p> <p>Chair: Khoulood Boukadi, Faculty of Economics and Management of Sfax, Tunisia</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Imen Ahmed, Mariem Turki and Mouna Baklouti, <i>Optimization of Weighted Random Walk tip selection algorithm on the IOTA Tangle</i> - Maher Jabberi, Bassem Sellami, Akram Hakiri and Mohamed Adel Alimi, <i>Accurate Energy-Efficient Localization Hybrid Models for Distributed IoT Sensing</i> - Mariem Hadjwannes, Imed Bennour, Moncef Ghiss and Mohamed Braham, <i>Enhancing DApp Supply Chain with Verified Smart Contracts: A Case Study on the Olive-Oil Industry</i>
	<p>Track 2, Session 1, Kairouan Room: Security, Privacy, and Trust</p> <p>Chair: Ilaria Matteucci, Istituto di Informatica e Telematica – CNR, Italy</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Mohamed Amine Mighri, Ahmed Ben Farah and Aref Meddeb, <i>Performance Evaluation and Benchmarking of PQC CRYSTALS-Kyber on Embedded Devices</i> - Ismehele Chaouch, Anis Naanaa and Sadok El Asmi, <i>Hybrid Encryption Strategy Integrating Hyper-Chaotic Systems and Spatiotemporal Cryptography for Enhanced Image Security in Cloud Computing</i> - Tran Thanh Lam Nguyen, Barbara Carminati and Elena Ferrari, <i>MetaLeak: Assessing Image Metadata Leakage in Android Apps</i>

	<p>Track 3, Monastir Room: Data Science, knowledge engineering, and ontologies (including Information Retrieval, Big Data, Databases, and Knowledge Systems) Chair: Elhadj Benkhelifa, Staffordshire University, UK Presenters, Titles</p> <ul style="list-style-type: none"> - Ameny Rjiba, Lilia Cheniti and Judita Kasperuniene, <i>Intelligent collaborative assessment in game-based learning: A bibliometric analysis</i> - Manef Ben Mbarek, Ines Assali, Asma Ben Abdallah, Marcel Carrère and Mohamed Hédi Bedoui, <i>Revealing Dynamic EEG-ECG Connectivity in Temporal Lobe Epilepsy: Insights from Pre-Ictal and Inter-Ictal Periods</i> - Abderaouf Gacem, Mohammed Haddad and Hamida Seba, <i>Latent Data Augmentation for Node Classification with Graph Neural Networks</i> - Wiem Baazouzi, Marouen Kachroudi and Sami Faiz, <i>Are my answers medically accurate? Answers Reliability Regarding Questions over Healthcare Knowledge Graphs</i>
12:30-14:00	Lunch
14:00-15:30 (parallel sessions)	<p>Second Symposium of Computing, Informatics, Multimedia, and Networking (CIMN), Session 2, Sousse Room Chair: Sami Yangui, INSA Toulouse, France Presenters, Titles</p> <ul style="list-style-type: none"> - Andrew Fausak, Cihan Tunc and Andy Fausak, <i>Malicious Intent Detection Framework For Social Networks</i> - Hamdi Hassen, Zarrouk Rim, Ramzi Mahmoudi and Narjes Benameur, <i>Establishing an Interactive Virtual Library for Medical Manuscript Preservation using KNN/SVM and an Amazon Elastic MapReduce Model</i> - Mohammad Al Rawajbeh and Hassan Al-Zoubi, <i>Implementing the Concept of Smart Cities in Amman: Reality and Aspirations Review</i>
	<p>Track 1, Session 2, El-Jem Room: Ubiquitous, Parallel and Distributed Computing (including cloud, IoT, network, sensors, blockchain technologies) Chair: Khouloud Boukadi, Faculty of Economics and Management of Sfax, Tunisia Presenters, Titles</p> <ul style="list-style-type: none"> - Achref El Amri and Aref Meddeb, <i>Optimal Routing for Competitive Service Providers in Network Virtualization context</i> - Boughdiri Maher, Mohamed Hkima and Takoua Abdellatif, <i>A Threat Modeling Approach for Blockchain Security Assessment</i> - Yamina Hichri, Soumaya Dahi and Habib Fathallah, <i>Enhanced Framework for Multipart Quality of Service Modelling in Vehicular Cloud</i> - Mohamed Hkima, Imen Boudali and Takoua Abdellatif, <i>Federated Learning Frameworks: A survey</i>
	<p>Track 2, Session 2, Kairouan Room: Security, Privacy, and Trust Chair: Ilaria Matteucci, Istituto di Informatica e Telematica – CNR, Italy Presenters, Titles</p> <ul style="list-style-type: none"> - Anthony Rodrigues, Nourhène Ben Rabah, Abir Gorrab and Bénédicte Le Grand, <i>A Comprehensive Review of Explainable Artificial Intelligence to Enhance Intrusion Detection in VANET Networks</i>

	<ul style="list-style-type: none"> - Olfa Dallel, Souheil Ben Ayed and Jamel Bel Hadj Tahar, <i>Access Permission Delegation for Supply Chain of Social Things</i> - Kenza Chaoui, Nadia Kabachi, Nouria Harbi and Hassan Badir, <i>Enhancing Data Security through Comprehensive Traceability: A Labeling Approach</i> <p>Track 5, Session 1, Monastir Room: Natural Language Processing Chair: TBA Presenters, Titles</p> <ul style="list-style-type: none"> - Feriel Ben Fraj and Sarra Kouki, <i>Bully.tn: A Cyberbullying Detection Dataset in Tunisian Dialect</i> - Abdelkarim Mars and Karim Dabbabi, <i>Enhancing the Efficiency and Accuracy of Arabic NER with Gemini Pro and active learning</i> - Laldja Ziani, Mohamed Essaid Khanouche, Ahror Belaid and Salma Talantikite, <i>Impact of Comment Summarization on Decision-Making Process: An Experimental Study</i>
15:30-16:00	Coffee break
16:00-17:30 (parallel sessions)	<p>Second Symposium of Computing, Informatics, Multimedia, and Networking (CIMN), Session 3, Sousse Room Chair: TBA Presenters, Titles</p> <ul style="list-style-type: none"> - Amal Alshehri, Burak Tufekci and Cihan Tunc, <i>Identification Management for Zero Trust through Network Analysis</i> - Bilel Abderrahmane Benziane, Benoit Lardeux, Maher Jridi and Ayoub Mcharek, <i>Investigating Explanatory Variables Impact on Warehouse Demand Forecasting</i> - Souhir Khessiba, Ahmed Ghazi Blaeich, Asma Ben Abdallah, Antoine Manzanera, Khaled Ben Khalifa and Mohamed Hédi Bédoui, <i>A Novel Hybrid Grid Search and Tree Parzen Estimator for Deep Learning Hyperparameters Optimization</i>
	<p>Track 4, Session 1, El-Jem Room: Artificial Intelligence & Cognitive Systems Chair: Nadia KABACHI, Lyon 2 University, France Presenters, Titles</p> <ul style="list-style-type: none"> - Walid Ben Abdallah, Hasna Njah and Salma Jamoussi, <i>New dynamic Bayesian network for time-to-event prediction</i> - Lazhar Manai, Walid Mchara and Mohamed Abdellatif Khalfa, <i>Improved Diagnosis of Lithium-Ion Battery Health in Electric Vehicles via a Hybrid Deep Learning Model Incorporating Wavelet Transform and Attention Mechanism</i> - Jihen Souissi, Sourour Karmani, Kais Belwafi and Ridha Djemal, <i>Enhancing Four-Class Motor Imagery Detection through Advanced Feature Extraction Techniques</i>
	<p>Track 6, Session 1, Kairouan Room: Multimedia, Computer Vision, and Image Processing Chair: TBA Presenters, Titles</p> <ul style="list-style-type: none"> - Vian Abdulmajeed Ahmed, Khaled Jouini, Amel Tuama and Ouajdi Korbaa, <i>Integrating Deep and Handcrafted Features for Enhanced Remote Sensing Image Classification</i> - Takwa Ben Aïcha Gader, Heni Lachouak, Safoine Touil, Afef Kacem Echi and Sameh Mbarek, <i>Hybrid CNN-Swin Transformer for Glaucoma Screening in Fundus Images</i>

	<ul style="list-style-type: none"> - Afef Kacem Echi, Takwa Ben Aïcha Gader, Aziz Benamor, Hamdi Baccar and Mohamed Nadhir Najjar, <i>Head and Neck Organ-at-Risk Multi-Modal Semantic Segmentation using 3D-UNet</i>
	<p>Track 5, Session 2, Monastir Room: Natural Language Processing Chair: TBA Presenters, Titles</p> <ul style="list-style-type: none"> - Mohamed Camara, Samira Ellouze, Maher Jaoua and Bilel Gargouri, <i>Enhancing SimpLex, a Lexical Simplification Architecture</i> - Zineb Maasaoui, Mheni Merzouki, Abdella Battou and Ahmed Lbath, <i>Anomaly Based Intrusion Detection using Large Language Models</i>
<p>17.30-18.30</p>	<p style="text-align: center;">Sousse Room</p> <p>Keynote speaker: Dr. Edward Griffor National Institute of Standards and Technology (NIST), USA Title: Using AI/ML to assess System Performance using Information Permeability Chair: Salim Hariri, Arizona University, USA</p>

Thursday, October 24 2024

08:45-09:00	Check-in
09:00-10:30 (parallel sessions)	<p>The 7th International Workshop on Health Informatics: IT Innovations and Disruptive Approaches in the Digital Health Era (HOPE), Session 1, Sousse Room Chair: Thomas Lux, Niederrhein University of Applied Sciences, Germany <i>In parallel with Digital Health Hackathon</i></p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Benjamin Jagusch, Simon Hensel and Thomas Lux, <i>Lectures on AI in Healthcare, an interdisciplinary learning approach</i> - Amine Bouzid and Monia Rekik, <i>Automating Physician Scheduling in Family Medicine Groups: Achieving Equity and Workload Balance through a Hierarchical Approach</i> - Khouloud Bennour, Imen Ghazouani, Asma Ouled Bedhief, Safa Bhar Layeb and Najla Omrane Aissaoui, <i>Tailoring Reinforcement Learning for the Online Surgery-Planning and Scheduling Problem</i> - Ghassen Frikha, Xavier Lorca, Pingaud Herve, Adel Taweel, Christophe Bortolaso, Katarzyna Borgiel and Elyes Lamine, <i>Leveraging Service Supply Dynamics in Senselife: Building an Explainable Recommender System for Tailored Frailty Prevention</i>
	<p>Track 4, Session 2, El-Jem Room: Artificial Intelligence & Cognitive Systems Chair: Nadia Kabachi, Lyon 2 University, France</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Tawfik Mousa, Ramzi Zouari and Mouna Baklouti, <i>Vision transformers with efficient LoRA finetuning for breast cancer classification</i> - Djalila Boughareb, Hazem Bensalah, Rima Boughareb and Hamid Seridi, <i>A Pre-hoc based SMOTE Variants approach for Dataset Bias Mitigation in Medical Ensemble Learning Models</i> - Sameh Ben Aoun, Meriem Belguidoum and Ahmed Hadj-Kacem, <i>Improving Autonomous Driving via Recommendation Systems: A Review</i>
	<p>Track 6, Session 2, Kairouan Room: Multimedia, Computer Vision, and Image Processing Chair: Elhadj Benkhelifa, Staffordshire University, UK</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Yadini Pérez López, Laís Dib Albuquerque, Letícia Balbi, Richard Hada Degaki, Daniel Xavier Lopes, Gilmar Joia and Juan G. Colonna, <i>Smart Graphical User Interface component Recognition</i> - Ridha Zaghdoud, Khalil Boukthir, Tarek M. Hamdani and Adel M. Alimi, <i>Bilingual Road Text Recognition based on a Hybrid Model of CTC and Attention</i> - Syrine Ben Ahmed, Amani Elaoud, Imene Ben Hafaiedh and Rabah Attia, <i>Model-Based SVM Parameter Selection Approach for Multi-View Fall Detection</i>
	<p>Second Symposium of Computing, Informatics, Multimedia, and Networking (CIMN), Session 4, Monastir Room Chair: TBA</p> <p>Presenters, Titles</p> <ul style="list-style-type: none"> - Achraf Makhoulfi, Mouna Dammak and Abdelaziz Kallel, <i>Segmentation of fruits and leaves in olive branch image using AI based approach: toward yield estimation</i>

	<ul style="list-style-type: none"> - Abdelkader Berrouachedi, Rakia Jaziri and Gilles Bernard, <i>Enhancing Multi-Label Classification through Deep Extra-Trees and Transformation Techniques</i> - Khaled Gadouh and Hend Koubaa, <i>Enhancing Virtualized Network Functions through Advanced Machine Learning for Efficient Resource Allocation and Dynamic Placement</i>
10:30-11:00	Coffee break
	Sousse Room
11:00-11:45	<p>Keynote speaker: Pr. Daniela Grigori University Paris Dauphine PSL, France Title: Behavioral patterns discovery and analysis: issues and challenges Chair: Chirine Ghedira Guegan, iaelyon University Lyon 3, France</p>
11:45-12:30	<p>Woman in STEM Panel Co-Chairs and Moderators: Genoveva Vargas Solar, Takoua Abdellatif, Chirine Ghedira</p>
Lunch 12:30-14:00	
14:00-15:30 (parallel sessions)	<p>The 7th International Workshop on Health Informatics: IT Innovations and Disruptive Approaches in the Digital Health Era (HOPE), Session 2, Sousse Room <i>In parallel with Digital Health Hackathon</i> Chair: Thomas Lux, Niederrhein University of Applied Sciences, Germany Presenters, Titles</p> <ul style="list-style-type: none"> - Hanae Touati, Rafika Thabet, Franck Fontanili, Marc Pruski, Marie-Hélène Cleostrate, Marie-Noëlle Cufi and Elyes Lamine, <i>Automated Processing of Medication Error Reports with a GPT Transformer Model</i> - Mohamed Ayachi Brini, Hanae Touati, Rafika Thabet, Franck Fontanili, Marie-Hélène Cleostrate, Marie-Noëlle Cufi, Marc Pruski and Elyes Lamine, <i>Model-Based Artificial Intelligence Architecture for Digitizing Handwritten Medication Error Reports</i> - Eya Mhamed, Rayen Abed and Olfa Fakhfakh, <i>Prediction of neurodevelopmental disorders using Machine Learning models</i>
	<p>Track 4, Session 3, El-Jem Room: Artificial Intelligence & Cognitive Systems Chair: Nadia Kabachi, Lyon 2 University, France Presenters, Titles</p> <ul style="list-style-type: none"> - Rahma Boughale, Amira Zrelli and Tahar Ezzedine, <i>Enhancing Flood Forecasting with BiLSTM Networks</i> - Marwen Bouabid and Mohamed Farah, <i>Streamlining Disaster Detection: A Lightweight Fusion Architecture for Low-Resource Deployment</i> - Ashifur Rahman, Mm Mahbubul Syeed, Kaniz Fatema, Razib Hayat Khan, Md Shakhawat Hossain and Mohammad Faisal Uddin, <i>An Interpretable Hybrid CNN-SVM Model for Predicting Stress Among University Students</i>
	<p>Track 6, Session 3, Kairouan Room: Multimedia, Computer Vision, and Image Processing Chair: TBA Presenters, Titles</p> <ul style="list-style-type: none"> - Amira Fayouka, Narjes Benameur, Ramzi Mahmoudi, Imene Masmoudi and Mohamed Deriche, <i>Cardiac Segmentation: A Comparative Study between 3D UNet and 2D UNet performances</i>

	<ul style="list-style-type: none"> - Samar Daou, Achraf Ben-Hamadou, Ahmed Rekik and Abdelaziz Kallel, <i>Transfer Learning for Limited-Data Infra-Red Lipreading Model Training</i> - Manel Farhat and Achraf Ben-Hamadou, <i>Graph Self-Supervised Learning for Endoscopic Image Matching</i> <p>Second Symposium of Computing, Informatics, Multimedia, and Networking (CIMN), Session 5, Monastir Room Chair: TBA Presenters, Titles</p> <ul style="list-style-type: none"> - Issam Attoui, <i>Deep CNN and Adaptive Habitat Biogeography-based Optimizer Algorithms for Rotating Machine Fault Detection and Classification</i> - Sondes Belgacem, Housseem Eddine Nouri and Olfa Belkahla Driss, <i>Flow shop scheduling problem with worker flexibility: State-of-the-Art Review</i> - Shili Mohamed and Laabidi Khalil, <i>Integrating GIS and Ontology for Personalized Experiences In Ecommerce</i> - Hend Koubaa, Manel Boujelben, Mohamed Hdidane and Rahma Kallel. <i>An ECG Data Feature Selection comparison: Machine Learning and Expert Doctors</i>
15:30-16:00	Coffee Break
16:00-17:30 (parallel sessions)	<p>The 7th International Workshop on Health Informatics: IT Innovations and Disruptive Approaches in the Digital Health Era (HOPE), Session 3, Sousse Room <i>In parallel with Digital Health Hackathon</i> Chair: Thomas Lux, Niederrhein University of Applied Sciences, Germany Presenters, Titles</p> <ul style="list-style-type: none"> - Imen Toujani, Nicolas Singer, Imen Megdiche and Xavier Alacoque, <i>Indoor Geolocation Demonstrator: Enhancing Efficiency through Real-Time Tracking and AI Optimization</i> - Mayssa Emmales, Farah Jemili, Ouajdi Korbaa and Ferid Kamel, A Deep Learning System for Early Detection of Diabetic Retinopathy - Olfa Souki and Oumaima Ben Mohamed, <i>Early Detection of Autism Spectrum Disorder (ASD) in Toddlers Using Behavioral Indicators</i> <p>Track 4, Session 4, El-Jem Room: Artificial Intelligence & Cognitive Systems Chair: Nadia Kabachi, Lyon 2 University, France Presenters, Titles</p> <ul style="list-style-type: none"> - Nour Noura, Housseem Eddine Lassoued, Rym Bourguiba, Syrine Bellakhal, Mehdi Charfi, Hela Mahersia, Anis Ben Aicha and Habib Fathallah, <i>A Deep Learning approach for Salivary Gland Echographic Image Analysis in Sjögren's Syndrome Detection</i> - Emna Fakhfakh, Maha Charfeddine, Nesrine Tarhouni and Mohamed Amine Guettat, <i>Combining TF-IDF, V-GAN, and XGB to improve Next-Generation Web Application Firewalls' ability to detect SQL Injection attacks</i> - Hiba Ouchene, Melyara Mezzi, Lamia Oukid, Nadja Benblidia and Fadila Bentayeb, <i>Classification of Cancer Pathology Reports Using Rule-Based Approaches: A Review</i> <p>Track 6, Session 4, Kairouan Room: Multimedia, Computer Vision, and Image Processing Chair: TBA Presenters, Titles</p>

	<ul style="list-style-type: none"> - Souha Amri, Laila Ouannes, Anis Sahbani and Najoua Essoukri Ben Amara, <i>YOLO-Based Detector for Enhancing Workplace Safety: Real-Time PPE Detection and Monitoring</i> - Sabrina Brahmi, Marwa Afnouch, Wided Ben Daoud and Faouzi Zerai, <i>Data-Driven Analysis of Alzheimer’s Disease Classification using LLaVA-Med: A Large Language Model Approach</i> - Kaouther Ezzameli and Hela Mahersia, <i>Multilevel Wavelet Transform For Facial Emotion Recognition</i>
17:30-18:30	<p style="text-align: center;">Sousse Room</p> <p>Keynote speaker: Dr. Tao Zhang National Institute of Standards and Technology (NIST), USA Title: Edge AI and 6G Chair: Cihan Tunc, University of North Texas, USA</p>

Friday, October 25 2024

08:45-09:00	Check-in
9:00-10:30 (Parallel sessions)	<p>Special Hot Topics Track, Sousse Room Chair: Salim Hariri, Arizona University, USA Presenters, Titles</p> <ul style="list-style-type: none"> - Soura Boulaares, Salma Sassi, Richard Chbeir, Djamel Benslimane and Faiz Sami, <i>Evaluation of Uncertain-Based IoT Composition Reference Model</i> - Genoveva Vargas-Solar, Nadia Bennani, Andrea Mauri, Javier Espinosa-Oviedo, José-Luis Zechinelli-Martini, Clausio A. Ardagna, Nicla Bena and Barbara Catania, <i>Decolonizing Federated Learning: Designing Fair and Responsible Resource Allocation—Position Paper</i> - Hishaam Abid, Rakan Aldmour, Ateeq Ur Rehman and Hamid Asmat, <i>Real-Time Sign Language to Speech Recognition System for BSL</i>
	<p>Track 6, Session 5, Kairouan Room: Multimedia, Computer Vision, and Image Processing Chair: TBA Presenters, Titles</p> <ul style="list-style-type: none"> - Presenters, Titles - Aziz Amari, Mariem Makni, Wissal Fnaich, Akram Lahmar, Fedi Koubaa, Oumayma Charrad, Mohamed Ali Zormati and Rabaa Youssef-Douss, <i>An Efficient Deep Learning-Based Approach to Automating Invoice Document Validation</i> - Meher Boulaabi, Takwa Ben Aicha Gader, Afef Kacem Echi and Sameh Mbarek, <i>Advanced Segmentation of Diabetic Retinopathy Lesions Using DeepLabv3+</i> - Rym Dakhli and Walid Barhoumi, <i>Toward a quantitative trustworthy evaluation of post-hoc XAI feature importance maps using saliency-based occlusion</i>
	<p>The 7th International Workshop on Health Informatics: IT Innovations and Disruptive Approaches in the Digital Health Era (HOPE), Session 4, Monastir Room <i>In parallel with Digital Health Hackathon</i> Chair: Thomas Lux, Niederrhein University of Applied Sciences, Germany Presenters, Titles</p> <ul style="list-style-type: none"> - Mihiretu Bedada, Imen Megdiche, Elyes Lamine and Dimitri Duval, <i>Multi-task learning approach for hospital bed requirement prediction</i> - Khouloud Hamdi, Imen Megdiche, Elyes Lamine and Dimitri Duval, <i>An optimization model for patient transportation problem within stretchers activity in hospitals</i> - Mohamed Hedi Djemaa, Imen Megdiche, Farah Jemili, Rafika Thabet, Elyes Lamine and Ouajdi Kobaa, <i>Enhanced Human Activity Recognition Using Controllable GANs for Synthetic Data Generation</i>
	Poster Session: Co-Chairs: Sarra Abidi and Mohamed Ali Mahjoub – El-Jem Room
10:30-10:45	Coffee break
10:45-11:45	<p>Keynote speaker: Dr. Hossein Rastgoftar – University of Arizona, USA Title: Aerial-based Crisis Manager Center Chair: Abdella Battou, NIST, USA</p>
12:00	BUS to SOCIAL EVENT

14:00-18:30	Social Event
20:00	Gala Dinner

Saturday, October 26 2024	
08:45-09:00	Check-in
09:00-10:30 (Parallel sessions)	Track 6, Session 6, Kairouan Room: Multimedia, Computer Vision, and Image Processing Chair: TBA Presenters, Titles <ul style="list-style-type: none"> - Roua Mkadmi, Rabaa Youssef-Douss and Amel Benazza-Benyahia, <i>Cow monitoring system based on deep learning models for multiple objects detection and tracking</i> - Sameh Samir, Taheni Damak, Matthieu Saumard, Mohamed Ali Ben Ayed and Maher Jridi, <i>Optimized VVC Transform Module based on Fast MTS Decision</i> - Imen Habibi, Ikbal Chammakhi Msadaa and Khaled Grayaa, <i>Exploring Drone-Based Inspection for Detecting Anomalies in PV using Darknet and Image Colorization</i> - Andy Fausak, Cihan Tunc and Andrew Fausak, <i>Crowd Counting Camera Array and Correction</i>
	Track 4, Session 5, Monastir Room: Artificial Intelligence & Cognitive Systems Chair: Nadia Kabachi, Lyon 2 University, France Presenters, Titles <ul style="list-style-type: none"> - Mohsen Aydi, Housseem Eddine Nouri and Olfa Belkahla Driss, <i>Sparrow Search Algorithm-based Decomposition for Task Scheduling in Fog-Cloud System Integrating Blockchain Technology</i> - Mohamed Yassine Cherif, Wided Lejouad Chaari and Olfa Belkahla Driss, <i>A simplified quantum approach using Grover's algorithm for solving the vertex cover problem</i> - Abdelaziz Sahbani, Kamel Cherif and Kamel Ben Saad, <i>Enhancing Li-Ion Battery State-of-Charge prediction for Electric Vehicles using Deep Learning Models</i>
	Poster Session: Co-Chairs: Sarra Abidi and Mohamed Ali Mahjoub – El-Jem Room
10:30-10:45	Coffee break
10:45-11:30	Industry Track & Hackathon Award Keynote: Dr. Imen Jendoubi – Instadeep, Sousse Room Title: TBA
11:30-13:00	Industry Track & Poster Award, Sousse Room Chair: Takoua Abdellatif, University of Sousse, Tunisia
13:00-13:30	Closing Ceremony & Awards – Sousse Room
13:30-14:00	Lunch