ICAMAC2024

International Conference on Artificial Intelligence, Metaverse, and Cybersecurity

Conference Scientific Program

25th October 2024 (Friday)

TIME	Activity
08:30 – 10:00	Registration
09:00 – 10:15	Opening Ceremony & The Al Ayala Performance **Hall: B-Building B004**
10:15 – 10:45	Keynote 1 **Hall: B-Building B004**
10:45 – 11:00	Coffee Break
11:00 – 12:00	Session – 1
12:00 – 14:00	Lunch & Break
14:00 – 14:30	Keynote: Dr. Eman El-Sheikh Topic: Using AI to Strengthen Critical Infrastructure Security **Hall: B-Building B004**
14:30 – 14:45	Coffee Break
14:45 – 16:00	Tutorials
16:00 – 16:15	Coffee Break
16:15 – 17:30	Session – 2
17:30 – 18:00	Closing Ceremony

SESSION - 1

HALL - 1 - E Building - E113

Track: **Cybersecurity**
Session Chair: **Musa Balta**

Paper Id	Paper Title	Authors	Presenter
92	SCOUT: Surveillance and Cyber harassment Observation of Unseen Threats	Sumitra Biswal	Sumitra Biswal
97	Secure Design and Implementation of OPC Standards Based Log/Process Gathering Framework for Water Management Systems	Deniz Balta, Musa Balta, Hakan Kırık, Yasin Esen	Musa Balta
107	Attention to Patterns is all you need for Insider threat detection	Priya Tiwary, Akshayraj Madhubalan, Amit Gautam, Raj Darji	Akshayraj Madhubalan
133	SHADOW: A framework for Systematic Heuristic Analysis and Detection of Observations on the Web	Aaditya Rengarajan, Lohith Senthilkumar, Neelesh Padmanabh Padmanabh, Akhil Ramalingam	Akhil Ramalingam
134	Survey on Network-based Covert Communication Techniques	Rashed H Alnuman, Qusai Hasan, Huda K Saadeh	Rashed Alnuman

11:00 – 12:00

SESSION - 1

HALL - 2 - E Building - E305

Track: **Software Engineering**
Session Chair**: Vassilios Kappatos**

Paper Id	Paper Title	Authors	Presenter
29	A Classification Tool for Indoor Air Quality Management with Explainability	Evangelos Spyrou, Vassilios Kappatos	Vassilios Kappatos
30	Tracking without a Tracker. A Computer Vision Algorithm for Person Counting	Evangelos Spyrou, Vassilios Kappatos	Vassilios Kappatos
32	Success Factors of Enterprise Resource Planning: A State-of-the Art Mini Review	Ahmed BaniMustafa, Olla Baulkrock	Olla Baulkrock
51	An Automated System for Food Monitoring Using Internet of Things	Mangala Shetty, Kripa B Acharya, Spoorthi B Shetty	Mangala Shetty
94	Prolong the Lifetime of Wireless Sensor Network by LEACH Protocol	Aws Zuheer Yonis, Shereen Ghanem	Shereen Ghanem
121	Pattern-based Development For Event-B Models	Elie Fares, Jean-Paul Bodeveix, Mamoun Filali, Asem Kasem	Elie Fares

11:00 – 12:00

SESSION - 1

HALL - 3 - H Building - H106

Track: **Artificial Intelligence**

Session Chair: **Md Azher Uddin**

Paper Id	Paper Title	Authors	Presenter
68	Risk Identification and Relapse Prediction in Lung Adenocarcinoma (LUAD)	Radhika Khatri, Faryal Khan	Radhika Khatri
86	Automated Identification of Epileptic Seizures from Electroencephalography Data using Deep Features and Metaheuristic-Driven Model	Taranjit Kaur, Tapan Gandhi	Taranjit Kaur
98	A Proposal of NFA Model for Anomaly Detection of Potable Water Management Process	Deniz Balta, Musa Balta, Deniz Berfin Taştan, Murat Iskefiyeli	Deniz Balta
108	Fusion of Deep Learned and Handcrafted Features for Paddy Disease Recognition	Md Azher Uddin, Joolekha Bibi Joolee	Md Azher Uddin
131	A Comprehensive Analysis of Modern Generative Models for Echocardiography Image Synthesis	Aigerim Bolshibayeva, Sabina Rakhmetulayeva	Sabina Rakhmetulayeva

11:00 – 12:00

SESSION - 1

HALL - 4 - H Building - H002

Track: **Metaverse**

Session Chair: **Sana Ben Hammouda**

Paper Id	Paper Title	Authors	Presenter
95	Educational innovations supported by AI, VR, AR and metaverse technologies	Alejandro Acuña López	Alejandro Acuña López
124	Smart Management of Product Status and Exclusive Secured Information Using Augmented Reality	Ilisha Walia, Ankita Dixit	Ilisha Walia
126	A Metaverse platform for medical students training and assessment on human anatomy	Sana Ben Hammouda, Maher Maoua, Majed Bouchahma	Sana Ben Hammouda
128	Blockchain Revolution in the Metaverse: Challenges, Applications and Future Directions	Vangelis Malamas, Thomas Dasaklis, Panayiotis Kotzanikolaou, Dimitris Koutras, Vassilis Vasilakopoulos	Vangelis Malamas

11:00 – 12:00

	Tutorial 1
14:45 – 16:00	**C Building - C106**
	Presenter: **IBM – Worood Dabbas – Data & AI Specialist** Topic: **Harnessing the Power of Generative AI: From Concept to Real-World Application**

	Tutorial 2
14:45 – 16:00	**C Building - C107**
	Presenter: **Group-IB – Moataz Nasr – Cybersecurity Consultant at Group-IB** Topic: **Practical Incident Response in Cybersecurity**

	Tutorial 3
14:45 – 16:00	**C Building - C108**
	Presenter: **Injaz – Maryam Al Ansari – Founder and CEO of Itifaq** Topic: **TBD**

	SESSION - 2			
	HALL - 1 - C Building - C106			
	Track: **Software Engineering** Session Chair: **Huda Saadeh**			
	Paper Id	Paper Title	Authors	Presenter
16:15 – 17:30	60	Project Management in Software Development – The UAE Example	Khuloud Alzarooni, Turki Al Ali	Khuloud Alzarooni
	84	Evaluating Source Code Comment Quality: The Need for Comprehensive Indexes in Software Development	Mustafa A.E. Kilic, M. Fatih Adak	Mustafa A.E. Kilic
	122	Predicting Energy Demand with Interpretable Machine Learning Models	Yashwanth Karuparthi, Syed Shoaib, Harshadeep Kommareddi, Angel Arul Jothi J	Yashwanth Karuparthi
	125	Leveraging Semantic Coupling Through Class Name Embeddings for Software Change Prediction	Nur Banu Ogur, Beyza Eken	Nur Banu Ogur
	136	AudioMorse: A Morse-based Covert Channel That Leverages Audio Streaming Platforms	Jarryd Brits, Saleem Abdo, Osama Masoud, Rashed Al Shamali, Ahmad Al Shehhi, Saeed Albanna, Huda Saadeh	Huda Saadeh

SESSION - 2

HALL - 2 - C Building - C107

Track: **Artificial Intelligence**
Session Chair: **Omar Abdul Latif**

Paper Id	Paper Title	Authors	Presenter
57	Optimizing Email Spam Detection in Academic Environments: A Machine Learning Approach	Ja'far Alqatawna, Ghazala Bilquise, Ala' M. Al-Zoubi,	Ghazala Bilquise
93	Explainable AI for Real-Time Object Detection in Autonomous Driving	Tayyab Sajid, Omar Abdul Latif	Omar Abdul Latif
127	Deep Learning Method for Under-Canopy Tree Detection and Mapping using 2D LiDAR	Chia Chie Lee	Chia Chie Lee
130	Fast Licence Plate Recognition of Moving Vehicles Using Deep Learning Techniques	Abhilasha Singh, Afnan Ahmed Adil, Houssein Kanso, Jinane Mounsef, Muhieddin Amer	Abhilasha Singh
135	A Real-Time Carboy Tracking and Counting System Based on YOLOv8 and ByteTrack	Ferhat Akar, Sezer Berber, Oguzhan Koca, Cuneyt Bayilmis	Ferhat Akar

16:15 – 17:30

SESSION - 2

HALL - 3 - C Building - C108

Track: **Artificial Intelligence**
Session Chair: **Usman Durrani**

Paper Id	Paper Title	Authors	Presenter
54	Integrating Tradition And Technology : A survey of AI applications in the design of temple architecture	Diya P, Meghana J, Harshavardhana R Bellad, Ishwari Magdum, Srinivas K S,	Diya P
78	Drones And Surveillance: Challenges & Legal Regulation Against Drone Crimes In India	Bharanitharan K, Gagandeep Kaur, Vinod Kumar Shukla	Gagandeep Kaur
85	VulnerAI: GPT Based Web Application Vulnerability Detection	Sohan Singh Saimbhi, Kevser Ovaz Akpinar	Kevser Ovaz Akpinar
104	Harnessing AI for Personalized Academic Major Recommendations An Application of Large Language Models in Education	Usman Durrani, Asif Malik, Milan Dordevic, Mustafa Akpinar, Madeline Togher, Samer Aoudi,	Usman Durrani
105	Assessing the Effectiveness of Large Language Models in Predicting Student Dropout Rates	Usman Durrani, Mustafa Akpinar, Madeleine Togher, Asif Malik, Milan Dordevic, Samer Aoudi,	Usman Durrani

16:15 – 17:30