

ICAMAC2025

2nd International Conference on Artificial Intelligence, Metaverse, and Cybersecurity

Conference Scientific Program

17th October 2025 (Friday)

TIME	Activity
08:30 – 10:00	Registration – Library G-Building
09:30 – 10:15	Opening Ceremony & The AI Ayala Performance Hall: B-Building B004
10:15 – 10:45	Coffee Break
10:45 – 11:15	Keynote: Gina Petersen, Senior Vice President, Country Manager - UAE & Oman Topic: Trinity: Talent, Tech, & Trust Hall: B-Building B004
11:15 – 11:45	Keynote: Dr. Eman El-Sheikh, Associate Vice President of the University of West Florida Topic: How Universities Can Maintain Global Competitiveness in an AI-Powered World Hall: B-Building B004
12:00 – 14:00	Lunch & Break
14:00 – 15:15	Tutorials
15:30 – 16:30	Concurrent Sessions 1 Software Engineering C106 Artificial Intelligence C107 Artificial Intelligence C108 Cybersecurity C109 Metaverse D107
16:30 – 17:00	Coffee Break
17:00 – 18:00	Concurrent Sessions 2 Software Engineering C106 Artificial Intelligence C107 Artificial Intelligence C108 Cybersecurity C109
18:00 – 18:10	Closing Ceremony
20:00 – 22:00	Gala Dinner (Dubai Marina)*

*: The yacht will leave from Dubai Marina exactly at 20:00. Make sure to be there by 19:45.

Dubai Maria, Gate AA AB, Gate No: 03, Berth Number AB 3,

Contact person: +971 55 545 75 74

Please ask for details at the registration desk.

Location:



14:00 – 15:15	Tutorial 1
	C Building - C106
	Presenter: Mastercard – Anikta Priyam, Rupesh Sankhala Topic: Automated Threat Hunting Using AI Agents

14:00 – 15:15	Tutorial 2
	C Building - C107
	Presenter: Algotery – Ali Boyraz Topic: Mastering LLM Evaluation - Hands-on AWS Bedrock and Promptfoo Workshop

14:00 – 15:15	Tutorial 3
	C Building - C109
	Presenter: HCT – Dr. Usman Durrani – Professor Topic: AI Augmented Software Engineering

SESSION - 1

C Building – C106

Track: Software Engineering

Session Chair: Martin Žagar

15:30 – 16:30	Id	Paper Title	Authors	Presenter
	22	CodeSync: Multi-Agent System for Programming Assistance and Deterministic Thinking	Guhanesh, Bala ; S, Maheswari; P, Sasikumar; Sivaraman, Arunkumar	S, Maheswari
	24	Leveraging Blockchain for Secure and Transparent Patient Case Data Management: Insights from System Implementation and Use Cases	Sahu, Varun Dev ; Divate, Pritish Dipak ; Akolu, Yash Rajesh; S, Maheswari; Thaseen, Sumaiya	Thaseen, Sumaiya
	40	Blockchain-Enabled and Paperless Identity Systems for Environmental Sustainability	Sayıcı, Tunga; Salucu, Deniz	Sayıcı, Tunga
	55	Enhancing Remote Healthcare Through Contactless Interaction	Žagar, Martin; Klapan, Ivica; Mutka, Alan; Majhen, Zlatko	Žagar, Martin

SESSION - 1

C Building – C107

Track: Artificial Intelligence

Session Chair: Mounsef, Jinane

	Id	Paper Title	Authors	Presenter
15:30 – 16:30	39	Attention-Enhanced ResNet for Accurate Alzheimer's Disease Classification	M, Santo Paul; X, Anita; J, Martin Leo Manickam; Raj, Benson Edwin	M, Santo Paul; X, Anita; J, Martin Leo Manickam
	44	Application Of Transfer Learning in Autism Spectrum Disorder Detection Using Brain Imaging	Periyasamy, Sasikumar; Subburaj, Maheswari	Periyasamy, Sasikumar
	50	Deep Learning-Based Gesture Recognition for Myoelectric Prosthetic Control Using sEMG	Rapeti, Shanmukha; Nandakumar, Adithya	Rapeti, Shanmukha
	78	Eye Gesture-Based Robotic Arm Control Using EOG and Machine Learning	Alshehhi, Mohammed; Singh, Abhilasha; Mounsef, Jinane	Singh, Abhilasha
	79	Feature Fusion of Deep and Spatio-temporal Features for Dynamic Scene Understanding	Ahmed, Areej; Jabbar, Ishana; Naeem, Shehryar; Uddin, Md Azher	Uddin, Md Azher

SESSION - 1

C Building – C108

Track: Artificial Intelligence

Session Chair: Abu Talib, Manar

	Id	Paper Title	Authors	Presenter
15:30 – 16:30	47	Security Risks and Privacy Challenges of Large Language Models in Enterprise Environments	Hailemichael, Soliana; Chano, Maria; El-Sheikh, Eman; Hayajneh, Thair	El-Sheikh, Eman
	61	ATERS: An Advanced Text Emotion Recognition System for Non-Binary Sentiment Analysis based on Fine-tuned DistilBERT	Alabdallah, Hamza; Yerima, Suleiman	Alabdallah, Hamza
	62	RIAC: A Hybrid Framework for Real-time Arabic Captions Generation using ViT and GPT	Alabdallah, Hamza; Yerima, Suleiman	Alabdallah, Hamza
	67	Improved Drone Detection Approach: Using RF-based Techniques and Deep Learning	Alaboudi, Mariam; Nasir, Qassim; Abu Talib, Manar	Abu Talib, Manar
	76	Evolution of YOLO models and a Comparative Evaluation for Pedestrian Detection	Retig, Ma Althea; Ansari, Fakeha; Almarri, Maitha; Yerima, Suleiman	Retig, Ma Althea

SESSION - 1

C Building – C109

Track: Cybersecurity

Session Chair: Saadeh, Huda

Id	Paper Title	Authors	Presenter
51	Sybil Attack Detection in Urban VANET Using Exponentially Spider-Tailed Viper Optimization	Velayudhan, Nitha	Velayudhan, Nitha
	Based Shuffle Attention Network		
53	SmartInject: Automated SQL Injection Testing using Deep Q-Learning and LSTM-Based Payload Generation	Alhussin, Mohammad; Kermani, Arash; Satrya, Gandeve	Alhussin, Mohammad
55	Simplex Covert Communication Channel Via Google DNS TCP Keep-Alive Packets	Alnuman, Rashed; Saadeh, Huda	Alnuman, Rashed
71	Phishing URL detection with calibrated probabilities and policy-aligned thresholds	Al-Shammari, Eiman Tamah	Al-Shammari, Eiman Tamah
82	The Distribution of CVE-Based Vulnerabilities on CMS Platforms	Tokuoglu, Saadet Elif; Balta, Deniz; Balta, Musa	Balta, Musa
94	Weighted Ensemble Approach To Create Vulnerable Smart Contract Datasets	Alnuman, Rashed	Alnuman, Rashed

15:30 – 16:30

SESSION - 1

D Building – D107

Track: Metaverse

Session Chair: Durrani, Usman

Id	Paper Title	Authors	Presenter
41	Enabling Metaverse with an AI Companion	Gaur, Kuntal; Samblani, Gautam; Saini, Gatim	Gaur, Kuntal
52	Reverse Silhouette Cherry Segmentation Using EfficientNetB7-U-Net with Morphological Post-Processing	Hariharan, Hariharan; S, Kaushik; S D, Abilesh; L, Jani Anbarasi; Narendra, Modigari; Edwin Raj, Benson	Edwin Raj, Benson
92	Conceptual Foundations of Home Digital Twins for the Metaverse: History, Definitions, and Frameworks	Durrani, Dr Usman; Malik, Asif; Hassouna, Mohammed	Hassouna, Mohammed
93	Applications of Home Digital Twins in the Metaverse: Energy, Safety, Healthcare, and Personalized Living	Malik, Asif; Adnan, Muhammed	Adnan, Muhammed

15:30 – 16:30

SESSION - 2

C Building – C106

Track: Software Engineering

Session Chair: Al Husaeni, Khalil

17:00 – 18:00

Id	Paper Title	Authors	Presenter
57	Enhancing Third-Party Risk Management in Aviation: A Comprehensive Framework for Modern Challenges	Al Husaeni, Khalil; Bin Hammad, Shamma	Al Husaeni, Khalil
75	SymptoBuddy: A Progressive Web-Based AI Symptom Checker to Enhance Preliminary Health Assessment	Ishowo, Asma'a; Awotunde, Joseph; Hitam, Nor; Ishowo-Oloko, Fatimah	Hitam, Nor
85	SwarmForm: A Survey of Shape Formation in Modular and Decentralized Robot Systems	Kermani Kolankeh, Arash	Kermani Kolankeh, Arash
91	Orchestrating Intelligence: Towards A Framework for AI-Augmented Software Engineering Education	Durrani, Usman; Malik, Asif	Durrani, Usman

SESSION - 2

C Building – C107

Track: Artificial Intelligence

Session Chair: Omari, Asem

17:00 – 18:00

Id	Paper Title	Authors	Presenter
26	CPFE-Focus: Contextual Prior and Facial Stream-Assisted Focus enhancer and 3D Gaussian transition	Kumar, Aman; Bhatia, Chirag	Kumar, Aman
32	AI-powered Climate Change Analytics Approach	Omari, Asem; Alazzam, Azmi; Badreddine, Said; Al-Omari, Omaia	Omari, Asem; Alazzam, Azmi; Badreddine, Said
49	Impact Of Artificial Intelligence and Machine Learning on Customer Experience As a Catalyst to New Marketing Strategy	Emini, Adelina	Emini, Adelina
74	The Application of Artificial Neural Network for Optimal Real-time Control of Microgrids	Zoroje, Luka; Dobrić, Goran; Žarković, Mileta; Forcan, Miodrag; Forcan, Jovana; Barragán-Villarejo, Manuel; de Paula García-López, Francisco; Larruskain, Marene; Abarrategi, Oihane	Zoroje, Luka
87	Self-Contained Phishing Website Detection Using Machine Learning with Rendered URL and HTML Features	Özaslan, Yusuf; Adak, M. Fatih	Özaslan, Yusuf

SESSION - 2

C Building – C108

Track: Artificial Intelligence

Session Chair: Andoniou, Constantine

17:00 – 18:00

Id	Paper Title	Authors	Presenter
55	Green AI and Sustainable Technology	Al-Zanbouri, Zainab	Al-Zanbouri, Zainab
68	Inside the Machine: How ChatGPT Thinks, and Why It Is Reshaping Human Imagination	Andoniou, Constantine	Andoniou, Constantine
88	AI and ML Based Traffic Prediction System to Improve City Commutes	Alkharusi, Majid; John, Dr. Santhosh; Rajegowda, Puttaswamy Malali	John, Dr. Santhosh
90	Behavioural Biometrics: A Gait Recognition Approach	Kumar, Pradeep; Gaur, Kuntal; Tripathi, Shivansh; Sharma, Khushi; Tyagi, Aryan	Kumar, Pradeep

SESSION - 2

C Building – C109

Track: Cybersecurity

Session Chair: Abdul Latif, Omar

17:00 – 18:00

Id	Paper Title	Authors	Presenter
34	Reimagining E-Governance Document Security with Blockchain and Dynamic Consensus	Mishra, Priyanka; R, Ganesan	R, Ganesan
73	Proactive Approach to Identify and Mitigate Cybersecurity Threats in Smart Building using AI	Abdulla, Shayma; Alhayyas, Shayma	Abdulla, Shayma
77	Simulating a Ransomware Attack for Security Evaluation	Othman, Othman; Al Balawi, Yazan	Al Balawi, Yazan
81	Game Theory–Driven AI for Zero Trust Security	Hossain, Al Amin; Ahner, Darryl; Larkin, Michael	Hossain, Al Amin
64	Malware Detection and Analysis Using LLMs: A Review of Emerging Trends and Techniques	Mashel Albalooshi, Peter Chang, Suleiman Y. Yerima, Thekra Altamimi, Hamda AlFalasi, Abdulrahman Almarzooqi	Yerima, Suleiman
96	A Comparative Study on IoT Attack Detection	Ovaz Akpınar, Kevser; Abdo, Saleem; Brits, Jarryd	Ovaz Akpınar, Kevser