

PROGRAM

The 21st IEEE International Conference on E-Business Engineering

Theme of The Conference

**Artificial Intelligence Driven Disruption
in the Digital Marketplace**

ICEBE 2025

19 - 21 Jumada al-Awwal 1447

10 - 12 November 2025

 **Mustaqbal University, Buraydah, Saudi Arabia**

Hosts

جامعة المستقبل
Mustaqbal University
أول جامعة أهلية بمنطقة القصيم



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Organisers



IEEE COMPUTER SOCIETY
TCBIS
Technical Community on Business Informatics Systems



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T2
Business
Simplified



RMG
شركة ريناد المجد

Day – 1 : 10 November

Time	Title	Presenter
9:30 - 11:00	Workshop: Building Agentic AI Systems: A Practical Guide with LLMs and Retrieval-Augmented Generation	Dr. Charles Liu, Imani Abayakoon, UTS
11:00 - 11:15	Coffee Break	
11:15 - 12:45	Workshop: Autonomous Agents, Smart Contracts and Distributed Ledgers for engineering trust in the Carbon economy	Dr. Asma Alkhalaf, Dr. Asma Mistadi
12:45 - 1:00	Alduhr Prayer (11:52)	
01:00 - 1:45	Lunch & Networking	
1:45 - 3:15	Workshop: How to build your own AI Agent	Dr. Abdulaziz AlMaslukh, SITE
3:15 - 3:45	Al-Asr Prayer (2:54) + Coffee Break	
3:45 - 4:30	Lecture: Artificial Intelligence for Leaders and Decision-Makers	Eng. Fayyad Bayan, RMG

Day – 2: 11 November

Time	Session
9:00 - 9:30	Registration & Networking
9:30 - 10:00	Opening Ceremony: - Welcome Speech by Conference Chair - Introduction of Sponsors & Partners
10:00 - 11:00	Keynote Speech 1: Prof. Ali Shoker AI in Action, at the Heart of Cyber Security and Resilience
11:00 - 11:15	Coffee Break
11:15 - 01:15	Parallel Sessions1 (Papers – Track 1, 2, 3, 4)
01:15 - 01:30	Alduhr Prayer (11:52)
01:30 - 02:15	Lunch & Networking
02:15 - 03:45	Panel Discussion 1: "AI Driver for Innovation" Moderator: Mr. Abdullh Aldosari Panellists: - Dr. Mazen Shawosh - Ahmed Al Saleh - Dr. Riyadh Alshammari
03:45 - 04:10	Al-Asr Prayer (2:54) + Coffee Break
04:10 - 05:30	Parallel Sessions 2 (Papers – Track 5, 6, 7, 8)
05:30 - 06:00	Maghrib Prayer (5:15)
06:00 - 09:00	Gala Dinner

Day – 3: 12 November

Time	Session
9:00 - 9:30	Registration & Networking
9:30 - 10:30	Keynote Speech 2: Ms. Fadwa Saad AlBawardi Smart Disruption: AI's Role in Creating Next-Generation Digital Markets
10:30 - 10:45	Coffee Break
10:45 - 12:15	Panel Discussion 2: “AI in Cybersecurity: Opportunities and Reality Checks “ Moderator: Prof. Ali Shoker Panellists: • Dr. Naveed Ahmad. • Arwa Alhamad. • Ed Sleiman.
12:15 - 12:30	Alduhr Prayer (11:52)
12:30 - 1:30	Lunch & Networking
1:30 - 2:30	Parallel Sessions 3 (Papers – Track 9, 10, 11, 12)
2:30 - 3:30	Al-Asr Prayer (2:54) + Networking Coffee

Parallel Sessions - 11 November

Parallel Sessions 1: (16 papers) each session (30 minutes)

	Track 1	Track 2	Track 3	Track 4 (online)
	Hall A	Hall B	Hall C	Hall D
Moderator	Dr. Fatimah Alakeel	Dr. Ahmed Mansour	Dr. Mohamad Alrfaay	Dr. Radia Touahri
11:15- 11:45	Marwa Mustafa, Firas Al-Doghaman, Farookh Hussain, Mohamed Awadallah and Mohammed Ali. The Role of Explainable AI in Knowledge Graph-Based Drug Repurposing: Bridging Trust and Discovery	Nuo Chen, Han Yu, Bingqing Shen, Tieying Li and Hongming Cai. An AP-based Drone Swarm Clustering Framework for Efficient and Reliable Service Discovery	Kheira Cherad, Imen Benzarti, Abderrahmane Leshob and Hafedh Mili. From Scenario to Case Model: Generating CMMN Models from Natural Language with Large Language Models	Guan-Hong Lai, Shang-Pin Ma and An-Yu Li LLM-Powered ChatOps Approach to Microservice Deployment Pipeline Automation and Monitoring
11:45 – 12:15	Chong Sun, Hao Hu, Huili Zhang, Enqing Wu and Jiahao Yan LLM-Mv: An LLM-Enhanced Materialized View-Based Query Rewriting System	Min Zhu, Jianwei Song, Chenghang Liu, Jingjing Ai, Xirui Xiong and Hongming Cai Ship Design Report Generation Based on Large Language Models	Man-Lin Chu, Lucian Terhorst, Kadin Reed, Tom Ni, Weiwei Chen and Rongyu Lin LLM-Based Multi-Agent System for Simulating and Analyzing Marketing and Consumer Behavior	Zheru Dong, Wensi Jiang, Lili Dai, Omar Hussain and Yu Zhang Beyond Matching: An LLM-Based Diagnose of SDG Misalignment in University Curriculum

	Track 1	Track 2	Track 3	Track 4 (online)
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Moderator	Dr. Fatimah Alakeel	Dr. Ahmed Mansour	Dr. Mohamad Alrfaay	Dr. Radia Touahri
12:15- 12:45	Marwa Mustafa, Firas Al-Doghman, Farookh Hussain, Mohamed Awadallah and Mohammed Ali Explainable AI for Knowledge Graph-Based Drug Repurposing: Methods, Challenges, and Interpretability Frameworks	Niddal Imam and Mohammed Busaleh Security-by-Design in DevSecOps: Evaluating Docker Hardening Against a Real-World Vulnerability	Syed Sohail Ahmed and Omar Alamro Internet of Things – Based Novel Approach to Integrate with Smart Irrigation System	Wensi Jiang, Yu Zhang, Min Wang, Huadong Mo, Omar Hussain, Daoyi Dong and Wenjie Zhang Tracking Academic Topic Evolution from the Perspective of Author Interest Shifts
12:45 – 1:15	Sumayah Alwadei, Albatool Al-Sama, Fatimah Alkhunjuf, Awsaf Alharthi, Shahad Madkhli and Muzun Al Kulayb Aydi An AI-Powered App to Teach Saudi Sign Language	Anas Abudaqa, Muhammed Ibrahim, Moamin Mahmoud, Mohammed Al-Sharafi and Mustafa Ghaleb Mapping the Landscape of AI and Machine Learning in EBusiness: A Global Bibliometric Analysis of Research Trends and Future Directions	Liviu-Andrei Enache, José A. Paredes and Arturo Araujo AI-Driven Business Intelligence for E-Commerce in Traditional Industries: A Case Study of Romania's Wine Sector	Mohanad Almalki, Abdullah Abualhamayl, Abdulmajeed Alyoubi, Yasir Alyoubi, Firas Al-Doghman and Farookh Khadeer Hussain A Blockchain-Based Framework for Evaluating User Identity Trustworthiness in Real Estate

Parallel Sessions - 11 November

Parallel Sessions 2 : (16 papers) each session (20 minutes)

	Track 5	Track 6	Track 7	Track 8(Online)
	Hall A	Hall B	Hall C	Hall D
Moderator	Dr. Taha Alfaqih	Dr. Syed Mohd. Saqib	Dr. Zeeshan Shafi Khan	Dr. Tamer G. Ali
04:10 - 04:30	Abdullah Baihan A new secure imaging continuum computing system for diagnosis of diseases in healthcare organizations	Mahnaz Reza Hosseini, Naeem Janjua, Ahmad Mohsin and Saeed Ur Rahman Generating Test Cases with Large Language Model: Frameworks and Challenges	Muhammad Jamil Evolutionary algorithm behavior to optimize the IOT scheduling problem	Adel Alluhayb, Saeed Ur Rehman and Naeem Janjua Cyber Hygiene Awareness and Practices among Saudi Micro and Small Enterprises
04:30 - 04:50	Ahmed E. Mansour Atwa Predicting Cart Abandonment Using Machine Learning	Zeming Chen, Ziqi Liu, Jianwei Song, Kun Jiang, Pan Hu and Hongming Cai Lightweight Computing Framework for Ship CAD Models in Large-Scale Collaborative Design Scenarios	Zheng Xu and Yinsheng Li A User-Centered System for Reliable Cross-Border Trade Fraud Detection	Abdullah Abualhamayl, Mohaned Almalki, Firas Al-Doghaman, Abdulmajeed Abdumuti A Alyoubi and Farookh Hussain Blockchain Framework for Shared Real Estate Ownership Certification Using Fractional NFTs

	Track 5	Track 6	Track 7	Track 8(Online)
	Hall A	Hall B	Hall C	Hall D
Moderator	Dr. Taha Alfaqih	Dr. Syed Mohd. Saqib	Dr. Zeeshan Shafi Khan	Dr. Tamer G. Ali
04:50- 05:10	Zhuangzhuang Li and Hua Luo The Impact of Demand-side and Supply-Side Policies on the Diffusion of Electric Vehicles: An Evolutionary Game Model Based on Q-Learning and a Two-Layer Small-World Network	Jiangqing Wang, Enqing Wu, Chong Sun, Fan Yin, Ruiyu Chen and Hao Hu JRTRL: A Joint Recommendation Method for Indexes and Materialized Views Based on Transfer Reinforcement Learning	Mohammed Alghafis and Sulaiman Altami Digital Twins for Historic Mosque: A Digital Transformation Strategy for Heritage Preservation	Safar Albaqami, Maziar Nekovee and Imran Khan IoT Cybersecurity Risk Perception and Response Strategies Among Tech Startups in Saudi Arabia: A Data-Driven Study
05:10 – 05:30	Nasser Aldosari and Farookh Hussain LoRA-Enhanced LLM Fine-Tuning with Legal Dataset Generation for Multi-Component Financial Extraction: Zero-Shot vs Few-Shot Evaluation Framework for Gulf States HR Benefits Calculation	Md Kamruzzaman, Ripon Kumar Chakraborty, Pankaj Sharma, Hamed Aboutorab and Mohammad Nuruzzaman Impact of Centrelink recipients in loan eligibility prediction using ML model	Chong Sun, Ruiyu Chen, Meng Xia, Jin Xie, Enqing Wu and Ziheng Han MOCHA:Memory-Optimized Learned Index Based on Chameleon	Abdulmajeed Alyoubi, Abdullah Abualhamayl, Mohanad Almalki, Yasir Alyoubi, Firas Al-Doghman and Farookh Khadeer Hussain A Blockchain-Based Reputation Borrowing Model to Address the Cold Start Problem for New Users in Real Estate

Parallel Sessions - 12 November

Parallel Sessions 1 : (13 papers) each session (20 minutes)

	Track 9	Track 10	Track 11 (online)	Track 12 (Online)
	Hall A	Hall B	Hall C	Hall D
Moderator	Dr. Syed Mohd. Saqib	Dr. Aref Kurdali	Dr. Ahmed Mansour	Dr. Muhmmad Abid Jamil
01:30- 01:50	Adil Hammadi, Zeeshan Ahmad and Jamshaid Ashraf Digital Twin-Enabled Condition Monitoring System for Excavator Bucket: A Case Study	Bedour Almudaiheem and Nada Alshamrani The Role of AI driven MLS in Enhancing Strategic Management and Operational Efficiency in the Healthcare Industry	Ahmed Abaker Decentralized Supply Chain Management: A Blockchain Framework for Transparency and Traceability	Redouane Blal, Abderrahmane Leshob, Hafedh Mili, Omar Hussain and Pierre Hadaya Deriving Software Services and Goals they Achieve from Business Process Models
01:50 – 02:10	Abdullah Bin Sawad, Mohammed Althubyani, Sultan Alharbi, Abdulrhman Alorini, Naif Alotaibi, Bhuva Narayan, Shanshan Lin, Mukesh Prasad, A. Baki Kocaballi and Wael Jefry Advancing Prediabetes Care with Personalised Conversational Agents	Aljwharah Alsamaani, Riyadh Almakki and Waeal J.Obidallah Real-Time Child Detection Using YOLO Architectures for Enhanced Safety Applications	Wael Jefry, Farookh Hussain and Firas Al-Doghman Enhancing BERT-LA: Robustness Analysis with Augmented Data for English-Arabic Sentiment Classification	Tamara Abdulmunim Abduljabbar Blockchain Technologies and Their Applications in E-Business Ecosystems

	Track 9	Track 10	Track 11 (online)	Track 12 (Online)
	Hall A	Hall B	Hall C	Hall D
Moderator	Dr. Syed Mohd. Saqib	Dr. Aref Kurdali	Dr. Ahmed Mansour	Dr. Muhmmad Abid Jamil
02:10 - 02:30	Naif Alotaibi, Madhushi Bandara and Morteza Saberi Automated Opportunity Recommendation through Decision Tree-Based Pattern Recognition and Rule-Driven Inference	Mohamad Alrfaay and Aref Kurdali Opportunistic Networking as a Solution for Efficient Data Dissemination in Short-Duration Events: A Conference Case Study	Rasha Aljaafreh, Farookh Hussain and Firas Al-Doghman A Practical Machine Learning Framework for Enhanced Cyber Threat Detection in Digital Supply Chains: Simulation and Applied Evaluation	Ahmad Alelaimat, Fairouz Hussein and Ali Aljaafreh Explainable Execution of Socio-Technical Processes
02:30 – 02:50	-	-	Fatma Masmoudi, Norah Al-Qahtani, Latifah Al-Tamimi, Munirah Al-Fehaid, Ghoud Al-Dosari and Mai Al-Dosari Exploratory Data Analysis and Computer Vision approach for traffic accidents in Saudi Arabia	Saeed Alshahrani Artificial Intelligence for Tourism Analytics: Predicting Travel Intentions from YouTube and Influencer Dynamics: Case Study of Riyadh