

2026 ASU International Conference in Emerging Technologies for Sustainability and Intelligent Systems (ICETSYS 2026)

Manama, Bahrain

6-7 May 2026

Pages 1–602

IEEE Catalog Number:
ISBN:

CFP26CA3-POD
979-8-3315-7230-3



Copyright © 2026, IEEE

All Rights Reserved

Copyright and Reprint Permissions:

Abstracting is permitted with credit to the source. Libraries are permitted to photocopy beyond the limit of U.S. copyright law for private use of patrons those articles in this volume that carry a code at the bottom of the first page, provided the per-copy fee indicated in the code is paid through Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923.

For other copying, reprint or republication permission, write to IEEE Copyrights Manager, IEEE Service Center, 445 Hoes Lane, Piscataway, NJ 08854. All rights reserved.

*** This is a print representation of what appears in the IEEE Digital Library. Some format issues inherent in the e-media version may also appear in this print version.

IEEE Catalog Number:	CFP26CA3-POD
ISBN (Print-On-Demand):	979-8-3315-7230-3
ISBN (Online):	979-8-3315-7229-7

Additional Copies of This Publication Are Available From:

Curran Associates, Inc
57 Morehouse Lane
Red Hook, NY 12571 USA

Phone:	(845) 758-0400
Fax:	(845) 758-2633
E-mail:	curran@proceedings.com
Web:	www.proceedings.com

TABLE OF CONTENTS

Expected Shortfall Forecasting with Support Vector Regression: Insights from an Emerging Equity Market	1
<i>Tran Trong Huynh, Bui Thanh Khoa, Huynh Phuong Thuy</i>	
Volatility Dynamics in Vietnam's HNX Market: The Roles of Returns and Global Policy Uncertainty	6
<i>Tran Trong Huynh, Bui Thanh Khoa, Huynh Phuong Thuy</i>	
Global Uncertainty and Volatility Dynamics in the Equity Market: Evidence from a GARCH Approach	11
<i>Tran Trong Huynh, Bui Thanh Khoa, Duong Kim Ngoc</i>	
GRU Outperforms LSTM for Vietnamese Stock Market Prediction: A Comprehensive Statistical Comparison	16
<i>Nguyen Trung Hieu, Bui Thanh Khoa</i>	
Can Machine Learning Always Enhance Factor Models? Comparing Xgboost and OLS in the Fama-French Five-Factor Framework	21
<i>Nguyen Trung Hieu, Bui Thanh Khoa</i>	
Mitigating Latency and Spectral Inefficiency in 5G New Radio via Intelligent Queue-Driven Resource Scheduling	26
<i>Ali Amer Ahmed Alrawi, Mustafa Maad Hamdi, Khattab M. Ali</i>	
Massive MIMO Hybrid Beamforming with Quantized Phase Shifters: Algorithms and Channel Simulations	34
<i>S Swarnalatha, Premkumar Dhanasekar, Deeya Julka, Kanegonda Ravi Chythanya</i>	
Queueing-Theoretic and Reinforcement Learning-Based Admission Control for 5G/6G Network Slicing: Synthetic Traffic Models	38
<i>E Sindhu, T. Roseline Velankanni, Diya Agnihotri, Md Ankushavali</i>	
Urllc Scheduling Under Latency Constraints Using Stochastic Network Calculus: Improved Analysis and Simulation	44
<i>T Haritha, K.K. Manivannan, Mahip Aggarwal, Jayapal Lande</i>	
RIS-Assisted 6G Link Adaptation with Robust Beamforming Under Channel Uncertainty	49
<i>CH. Rajeswari, Manikandan I, Mahip Aggarwal, V Sumalatha</i>	
An Intelligent Ensemble Learning Framework for Diabetes Risk Prediction with Gender- and Age-Aware Analytics	53
<i>K. Ananthi, J.S. Devaprasad, M. NitheesRaj, C. Vijay, K. Vishnu</i>	
An Intelligent Machine Learning Framework for Student Behaviour Detection in Virtual Learning Environments	61
<i>Mrs. V. Kavitha, Dhivya P, Lavanya A, Mohana Prabha M, Monika M</i>	
AI-Transparency and Algorithmic Trust in Smart LMS Adoption: An Explainable-AI Extended TAM Model	69
<i>Boumedyen Shannaq, Said Almaqbali, Oualid Ali</i>	
Measuring Perceived Pedagogical Intelligence as a Predictor of ROI in AI-Enabled Distance Learning: A UTAUT Outcome Model	76
<i>Boumedyen Shannaq, Said Almaqbali, Oualid Ali</i>	

Leakage-Aware Explainable AI Framework for ROI Optimization in Distance Learning: A Predictive Modeling and Scenario Simulation Approach	85
<i>Boumedyen Shannaq, Said Almaqbali, Oualid Ali</i>	
Integrating Digital Technologies and Sustainability in Logistics Monitoring Systems: A Systematic Review of Subsidized Commodity Distribution	95
<i>Muhammad Rizqy Abdurrahaman Assyifa, Elisa Kusri, Agus Mansur, Muhammad Ridwan Andi Purnomo</i>	
Utilization Social Inclusion in Green Corridor for Mondialism and Sustainable City Case Study: Nineveh Al-Hadbaa Street at City of Ramadi	105
<i>Ahmed Adnan Saeed, Muhammad Abdullah Alsaadi, Omar Kamel Hasan, Israa Shareef Ghyghhan Saeed Aldulaimi</i>	
Design and Application of a Self-Aligning Control Circuit Using Operational Amplifier Configurations	110
<i>Karl Fredrich C. Watiwat, Char Chaela C. Manzano, Ken Kirby A. Pabito, Anne Margarette Z. Sagun Mariz J. Prado, Mirasol C. Dilay, Anela L. Salvador, Selverino A. Magon</i>	
An Power Quality Enhancement Framework for Distributed Generation Using Cascaded Multilevel Inverters	115
<i>Nayana G, Savita D Torvi</i>	
Empowering Innovation: A Meta-Analysis of Delegation, Participation, and Incentives in Shaping Employee Innovative Work Behavior	124
<i>Adel Mahmoud Al Samman</i>	
A Secure and Intelligent Fog-Based Framework for Billing and Data Aggregation in Smart Energy Grids	130
<i>Rajeshkumar C, Dhanish G, Hari Vishnu S, Rajesh Kumar T, Avinash Kumar RB</i>	
An Intelligent Adaptive Access Control Framework using Policy Gradient Reinforcement Learning	139
<i>F Rahman, Lalnunthari, Najmitdinov Akhadkhon, Mohammed Ridha Abbas Yousif, Bharani B R, M. Murali</i>	
An Intelligent Machine Learning Framework for Sustainable Public Data Governance	147
<i>S.R.Rithik Roshan, Ruban Blessing S, T. Prem Jacob</i>	
FedEdgeTrans-AD: A Privacy-Preserving Federated Transformer for Edge-Based IoT Anomaly Detection	155
<i>M Pedda Chennaiah, Ramya M, Kanegonda Ravi Chythanya, Ryan Sharma</i>	
Federated Learning for Privacy-Aware and Secure Medical Decision Support Systems	161
<i>N Sravan Kumar, Seeniappan Kaliappan, Yashasvi Saini, Jayapal Lande</i>	
3D Scene Reconstruction From 2D Images for Smart Assistance and Interaction	167
<i>Shivika Mittal, Manya Saini, Misha Kakkar</i>	
A Robust Preprocessing–EfficientNet-B4 Pipeline for Multi-Disease Retinal Fundus Image Classification	177
<i>K. Umamaheshwari, Prasanth N, Aditya Sain, Md Ankushavali</i>	
A Soft Robotic Gripper With an Embedded Bistable Elastic Mechanism for Pneumatic Actuation and Passive Locking	183
<i>Efrem Olivio Gomes, Shyang-Jye Chang, Ilham Saputra, Chin-Yi Cheng</i>	

Cross-Attention-Based Intelligent Video Temporal Grounding for CCTV-Based Crime Identification in Smart Cities	189
<i>Abdul Jawwad, Akil Krishna, Ch. Madhavi Sudha</i>	
Machine Learning-Based Prognostic Modeling in Aplastic Anemia Using Clinical and Genomic Features	196
<i>Maria Frasca, Bruno Fattizzo, Davide La Torre</i>	
Zero-Shot CLIP under Adversarial Attacks: An Empirical Study with Linear Probing	201
<i>Shraddha Gaur, Abhishek Singh, Vineet Kansal, Shiv Prakash</i>	
Explainable Artificial Intelligence Framework for Real-Time Threat Detection in Smart Cybersecurity Systems	207
<i>Jayalakshmi R, Reeya Jose Pavanathil, Swetha C V, Jitha Janardhanan, Priya Hari, Rajalekshmi Srinivasan</i>	
Technical Evolution and Legal Accountability in Artificial Intelligence Systems: A Systematic Review	215
<i>T Haritha, Prasanth N, Arjun, K Kiran</i>	
Governing Ai Without Adequate Institutions: Markets, Tort, and Ethics Under Deep Uncertainty	221
<i>Alex Atanasov</i>	
An Intelligent Deep Reinforcement Learning Framework for Dynamic Risk Assessment in FinTech Platforms	231
<i>Priya Vij, Md Afzal, Bakhriddinov Makhamadali Madaminjon Ugli, Falah Amer Abdulazeez Cyril Prasanna Raj, R. Srinivasan</i>	
An Intelligent Spatiotemporal Transformer Framework for Secure Surveillance Video Analytics in Smart Cities	238
<i>Anjali Krushna Kadao, Archana Mishra, Abdurakhimova Zulaykho Ikromjon Kizi, Karrar Abbas Yousif Yashashwini S, R. Srinivasan</i>	
An Intelligent Public Safety Threat Prediction Framework Using Deep Q-Learning and Agent-Based Simulation	246
<i>Nidhi Mishra, Md Afzal, Muhidinov Ayubbek Nuritdinovich, Indumathi G, Ali Abbas Hadi, M. Murali</i>	
Hybrid Buoy Detection and Real-Time Path Planning for Autonomous Unmanned Surface Vehicles Using YOLOv8 and Contour Analysis	256
<i>AySe Nur Aslan, Buket Kaya, Mehmet Kaya</i>	
An Intelligent Multimodal Deep Learning Framework for Deepfake Detection and Artifact Localization	261
<i>David John, A Mohammed Harris, Ragul J, D. Nandhini</i>	
A Lightweight and Intelligent Micro-Transaction Verification Framework for Secure FinTech Applications	269
<i>Priya Vij, Md Afzal, Ergashev Bunyod Shokir Ugli, Chrispin Jiji, Amjed Abbas Ahmed, R. Srinivasan</i>	
An Intelligent UPI Fraud Detection Framework Using Machine Learning for Secure Digital Payments	277
<i>Shabana Sultana, Harshitha H S</i>	
A Multi-Scale Monetary Precision Framework for Distributed Banking Systems	286
<i>Bhaskar Manchuri</i>	

Blockchain Technology in Financial Technology: Examining its Impact on Transaction Transparency, Trust, and Financial Performance in Jordanian Financial Institutions	294
<i>Hasan Alhanatleh, Abdallah Ali Mohammad Alrifae, Esra'a Reda Zaid, Mastura Ab. Wahab Hadeel Alfreihat</i>	
Distributed Ledger Fintech Systems for Improving Financial Transparency and Trust in Supply Chain Finance	299
<i>Mohammed H M Qeshta, Ahmad Ali, Salma Al-Shammari, Khaled M Algraibeh</i>	
Intelligent Scheduling of Sensor Nodes Using Machine Learning Techniques in Wireless Sensor Networks	303
<i>Saleem H Majeed, Khattab M. Ali Alheeti, Sarah Amjad Inad, Salah Sleibi Al-Rawi Ameen R. Jihad Alalwanl</i>	
Energy-Harvesting MAC Protocol Design for WSNs: Markov Models and Simulation	311
<i>P D Santhi, Premkumar Dhanasekar, Deeya Julka, Nagendar Yamsani</i>	
A Comprehensive Survey on Secure and Graphenhanced Multi-Agent Reinforcement Learning for Scalable HetNet Resource Allocation	316
<i>Pothula Pavan Kumar Reddy, C. Kamalanathan</i>	
An Intelligent Smart Logistics and Cold-Chain Monitoring Framework Using the Coligo Platform	324
<i>Balaji Doraiswamy M, Navin Sathiabal, Keerthika Velusamy, Aishwarya Lakshmi M K, Dharshini Priya J</i>	
An Intelligent LSTM-Based Network Risk Prediction Framework for Time-Stamped Cybersecurity Logs	332
<i>Pushplata Patel, Chilukuri Bala Venkata Subbarayudu, Abdumutalliev Abdulakhad Abdusamad Ugli Chrispin Jiji, R. Srinivasan, Yasir Mahmood Younus</i>	
From Blocks to Touch: Tangible Interfaces to Reduce Barriers in Adult Inclusive Coding	340
<i>Lorenzo Notaro, Alessandro Pagano, Veronica Rossano, Francesca Pia Travisani</i>	
Exploring Online Instructor Presence in Vietnamese Higher Education: A Qualitative Investigation	350
<i>Tuan Tran Anh, Duc Anh-Minh Tran, Bui Thanh Khoa</i>	
Integrating Variation Theory and Cognitive Theory to Improve Conceptual Mastery in an Artificial Intelligence and Machine Learning Course	355
<i>Aysha Siddika, Mahbub Hasan, Md. Arefin Rabbi Emon, Nafiz Imtiaz Bin Hamid, Md Abdullah Al Mamun</i>	
Game-Based Learning in Programming: An Instructional Strategy for Beginners	360
<i>Jenie L. Plender-Nabas, Janley Jude U. Acha, Jesterlyn Q. Timosan, Russel M. Zamora Clarence A. Cuenca</i>	
Fostering Sustainable Engineering Education Through e-Learning: Cognitive and Motivational Drivers of Conceptual Change	366
<i>Md Abdullah Al Mamun, Mahbub Hasan</i>	
Entrepreneurial Culture in the Age of Artificial Intelligence: A Strategic Framework for Sustainable Development in the Mena Region	373
<i>Mohammed Salman Nimah, Basim Faisal Abdul Nayef, Khamees Naser Mohammed Ibrahim Hadi Salem Aljmaili, Qayssar Khaleel Mhaidi, Marwan Abdeldayem</i>	

Green Economy as a Strategic Direction to Support Economic and Ecological Transformation in MENA Region	382
<i>Qasim Ali Raheemah Farttoosi, Sebyan Tareq Saeed Al-aaraji, Abdulrazaq Shabeeb, Faisal Ghazi Faisal Mohammed Yousif</i>	
Mapping Research on Lighting and Cognitive Performance in Educational Buildings: A Bibliometric Analysis (2015-2025)	389
<i>Shaikha Buti Almadhloum, Emad S. Mushtaha, Shouib Mabdeh</i>	
Residential Building Typologies and Spatial Configuration in Al Fahidi Heritage District, UAE: A Space Syntax Approach	399
<i>Yousra E. Mushtaha, Shouib Mabdeh, Aseel Hussien</i>	
An Intelligent Security Operations Monitoring and Risk Mitigation Framework for Smart Infrastructures	407
<i>Reddyvari Venkateswara Reddy, Pampari Rohan Raj, Kala Sri Hari, Sheri Madhusudhan Reddy</i>	
An Intelligent Blockchain Consensus Enhancement Framework Using DAG and the PHANTOM Protocol	416
<i>Charpe Prasanjeet Prabhakar, Sumit Ramswami Punam, Sayfiddinova Muniskhon Fakhreddinkizi, Geetha R R. Srinivasan, Al-Rubai Maitham Ali Naji</i>	
A Lightweight and Intelligent DBFT-Based Consensus Framework for Sustainable IoT Blockchain Networks	424
<i>Adil Raja, Ragini Kushwaha, Muhidinov Ayubbek Nuritdinovich, Girish H, Raed Waheed Kadhim T. Thirugnanasambandham</i>	
A Preliminary Governance-Centered Readiness Framework for Personal Data Protection Law Implementation: Evidence from Indonesia	432
<i>Nur Imas Nindy Agusti, Nur Aini Rakhmawati</i>	
Digital Courts as Information Systems: Technology, Incentives, and Error Correction in Judicial Decision-Making	437
<i>Alex Atanasov</i>	
Privacy Concerns in Digital Customer Surveys: Engineering Ethics in the Age of Big Data	447
<i>Bui Thanh Khoa, Le Ngoc Son, Duc Anh-Minh Tran</i>	
The Role of the Theory of Planned Behaviour (TPB) in Artificial Intelligence (AI) Adoption: A Systematic Literature Review	452
<i>Ahmad Bilal Almagribi, Bambang Purnomosidi Dwi Putranto, Yagus Cahyadi, LM. Fajar Israwan Syfaurachman, Muhammad Erfan</i>	
AI-Enabled Determinants of Green Logistics Adoption Intention Among Gen Z Consumer	460
<i>Dat Quang Tran, Tuan-Kiet H.V. Truong</i>	
Prediction of AI-Driven Elements on E-Procurement Decision of Gen Z in Vietnam	465
<i>Tuan-Kiet H.V. Truong, Uyen Thi Thao Tieu</i>	
The Impact of Satisfaction, Perceived Interactivity, and Learning Value on ChatGPT Use Intention and Behavior Among Indonesian Zoomers Students	471
<i>Lianna Wijaya, Sudip Wagle, Hazlina Abd Kadir, Anurika Vaish, Rakhdiny Sustaningrum Reinandus Aditya Gunawan, The Elisabeth Cintya Santosa, Rininta Ayu Pradhani</i>	

The Effects of AI-Based Product Recommendations and Targeted Ads on Impulse Buying Behavior on E-Commerce Platforms in Vietnam	478
<i>Hong Minh Ngoc Tran, Anh Phan Ngoc Que</i>	
AI Assisted Performance Feedback Quality and Employee Satisfaction with Appraisal Systems: Evidence from Service Sector Employees in Mekong Delta	484
<i>Hong Minh Ngoc Tran, Nhu Tran Huynh Tam</i>	
AI Enabled Upskilling and Work Engagement in Sustainable HRM: A Study of Education Employees in the Mekong Delta, Vietnam	490
<i>Hong Minh Ngoc Tran, Thuy Truc Nguyen</i>	
Artificial Intelligence in HRM: Linking Employee Engagement to Organizational Performance	496
<i>Islam Nassar, Asmahan Majed Altaher, Anizah Abu Bakar</i>	
Algorithmic Intelligence in Human Resource Management: Enhancing Workforce Decisions Through AI-Driven Analytics	500
<i>Sakher Alnajdawi, Saed Adnan Mustafa, Mahmoud Alghizzawi</i>	
Artificial Intelligence Applications in Human Resource Management: A Comprehensive Framework, Models, and Future Directions	506
<i>U. Sasikala, M. D. Raj Kamal, Sumalatha V, Samridhi Sharma</i>	
A Survey on Intelligent Melanoma Skin Cancer Cell Detection Using Image Processing and Deep Learning	511
<i>M. Sivaranjani, Kogilavani Shanmugavadivel</i>	
Artificial Intelligence in Accounting and Finance: A Systematic Review of Emerging Technologies and Practical	518
<i>M. Sreedevi, M.D.Raj Kamal, Nagendar Yamsani, Samridhi Sharma</i>	
Cybersecurity and Fraud Detection in FinTech Using Machine Learning Techniques	524
<i>Amro Alzghoul, Omar Mohammad Alquabeh, Kayed Al-ararh, Esra Farid Aloran</i>	
A Comparative Study of Multi-Horizon Directional Prediction for Cryptocurrency Markets	528
<i>Maria Frasca, Filippo Dal Lago, Davide La Torre</i>	
When Not to Trade: Explanation-Aware Decision Control for Machine Learning Trading Models	534
<i>Somesh Yadav, Abhishek Singh, Manik Chandra, Shiv Prakash, Ankit Kr. Bhasker</i>	
Digital Financial Platforms Enhancing Supply Chain Financing Performance through Inter-Organizational Integration	543
<i>Ahmad Ali, Mohammed H M Qeshta, Amro Saleem Alamaren, Khaled M Algraibeh</i>	
FinTech Analytics Capability for Enhancing Financial Stability and Sustainability in Supply Chain Networks	547
<i>Ahmad Ali, Mohammed H M Qeshta, Hadeel Alfreihat, Jamil J. Jaber</i>	
The Role of Big Data Analytics in Personalized FinTech Services and Digital Payments	551
<i>Ziad M.S. Zurigat, Ohoud Khasawneh</i>	
Predictive Decision Models for Multi-Channel Digital Marketing and Their Impact on Customer Relationship Management	555
<i>Bashar Thaker Al-Qotaje, Sadia Awid Awni, Ahmed Abbas Hammadi, Ahmed Kh. Muttar Mohammed Jasim Mahmmmed</i>	

E-Learning and Its Role in Building Cross-Border Capacities in the Era of Global Governance	561
<i>Marwan Mohammed Abbood, Zeyad khalf Ismail, Muhammed Nawar Hussein, Abeer Ali Abdalazeez Saeed Hameed Aldulaimi</i>	
Digital Orientation Portfolios for New Academics: Enhancing Onboarding, Engagement, and Retention in Higher Education	566
<i>Adel Mahmoud Al Samman</i>	
Legal Liability for Artificial Intelligence Applications in E-Learning Platforms	572
<i>Qais Maaitah, Mohammed Khalid Buraa, Aqeel Sarhan Fayydh, Marwah Imad Alghazali Khawlah Hamad Zaidan</i>	
Organizational Molding and Digital Leadership Re-Engineering: A Framework for Enhancing Educational Performance (Abdulla Bader's Hexagon)	577
<i>Abdulla Bader</i>	
A Social Cognitive Perspective on AI Use: Moral Disengagement, Epistemic Agency, and First-Principles Reasoning Among Engineering Students	584
<i>Yankuba Danso, Ebrima Badjie, Md Abdullah Al Mamun</i>	
Dense Feature Learning for Canola Disease Classification Using DenseNet201	591
<i>Nageswara Rao Putta, K.K. Manivannan, Eshika Jain, Jayapal Lande</i>	
A High-Performance EfficientNetV2-M Model for Robust Corn Leaf Disease Classification	597
<i>K Venkataramana, K.K. Manivannan, Divyanshu Sharma, V Sumalatha</i>	
Fine-Tuned DenseNet121 Framework for Automated Cucumber Leaf Disease Classification in Precision Agriculture	603
<i>R Yamuna, K.K. Manivannan, Divyanshu Sharma, Md Ankushavali</i>	
EfficientNetB0-Based Deep Learning Framework for Automated Eggplant Leaf Disease Classification	609
<i>M Sreevani, M. Shanmugapriya, Keshav, Nagendar Yamsani</i>	
EfficientNetV2-S-Based Automated Detection of Jute Leaf Diseases Using Deep Learning	614
<i>Chittamuru Sailakshmi, S. Kaliappan, Keshav, Nagendar Yamsani</i>	
Implementation of GAN-based Deep Learning for Optimization of NASA Mars Exploration Visual Data Processing Through PRIXY Platform	620
<i>Apri Aditya Saputra, Khakam Ma'ruf, Rizal Justian Setiawan</i>	
Clustering-Based Prediction (CBP) with Explainable AI (XAI): A Hybrid Methodology for Personalized Heart Disease Diagnostics	626
<i>Ashwini Kumar, Vineet Kansal, Abhishek Singh, Shiv Prakash, Vivek Rai</i>	
Energy Measures of Dominating Sets in Northeast India Graphs for Intelligent Network Analysis	635
<i>N. Anbarasi, S. Hemalatha</i>	
An Edge-Enabled Intelligent Real-Time Feedback Control System for Industrial Robotic Arms	643
<i>Parvinder Kaur Chhabda, Arvind Kumar Saxena</i>	
Intelligent Structural and Motion Analysis of an Omnidirectional Four-Wheel Mobile Robot for Smart Automation	649
<i>A P Mohan Raj, Parameshwaran P, Sanjay Karthi T, Sudharsan K, Aadhavan K</i>	

Priority-Aware Dual-Objective BERT for Fair and Interpretable Automated Recruitment	658
<i>Vandana Ahuja, Sandip kumar Goyal, Ambuj kumar Agarwal, Manik Rakhra, Sargam, Amandeep Kaur Preeti Kaushal</i>	
Transformer Framework for a Multi-Task in Automated Candidate Ranking and Resume Screening	664
<i>Vandana Ahuja, Sandip kumar Goyal, Ambuj kumar Agarwal, Manik Rakhra, Sargam, Jyoti</i>	
Integrating Lightweight Large Language Models into ERP Systems: A Demonstrative Implementation in ERPNext	669
<i>Marwan Eladawi, Fatima Dakalbab, Qassim Nasir, Manar Abu Talib</i>	
Reducing Hallucinations in Multi-Hop Question Answering Using Wikidata-Based Retrieval-Augmented Generation	678
<i>Razi Alsayyed, Shukri Khelfa, Amjad Hawash</i>	
Comparative Study of LLMs and BERT for Informal Indonesian TikTok Sentiment Analysis	685
<i>Chayun Fadila, Nur Aini Rakhmawati</i>	
Exploring the Impact of Artificial Intelligence Applications in Information Systems on Organizational Sustainability in Banks	691
<i>Anwar Al-Gasaymeh, Mohammad Mahmoud Saleem Alzubi, Fadi Ahmed Mohamed Abutabanjh Nour Ibrahim Kurdi, Hani Jazza Irtaimah</i>	
The Impact of Artificial Intelligence on Organizational Behavior: An Empirical Study	695
<i>Mohammad Saleem Alzubi, Anwar Al-Gasaymeh, Nour Ibrahim Kurdi, Bilal Nayef Zureigat Amro Saleem Alamaren</i>	
AI Applications in Information Systems and Their Role in Supporting Organizational Decision-Making: A Study on Jordanian Institutions	699
<i>Mohammed Moghazi Ezzeldeen Ahmed, Hussain Ahmad Awad, Omar Mohammad Alquabeh</i>	
Knowledge Management Processes and Their Impact on Organizational Innovation for Enabling Artificial Intelligence Applications	703
<i>Ihsan Mesri, Basim Faisal Abdul Nayef, Abdulrahman Mustafa Taha</i>	
Developing a Generative AI Readiness Measurement for SMEs in Green and Halal Supply Chains	711
<i>Wahyu Andriyas Kurniawan, Agus Mansur, Imam Djati Widodo</i>	
AI Applications in Information Systems: Architectures, Techniques, and Emerging Research Directions	721
<i>T. Rajitha Madhu Priya, Ramya M, Md Ankushavali, Ridhi Jain</i>	
Knowledge Representation in AI: A Survey of Paradigms, Trade-Offs, and the Imperative for Hybrid Approaches	728
<i>Rawan Zanabeet, Amjad Hawash</i>	
The Role of Artificial Intelligence in Enhancing Leadership, Decision-Making, and Sales Performance: Evidence from Jordanian Service Organizations	737
<i>Abdallah Ali Mohammad Alrifae, Hasan Alhanatleh, Asmahan Majed Altaher, Esraa Reda Zaid Ameen Al Htibat</i>	
Cognitive AI in Managerial Decision-Making: Redefining Leadership and Control in Data-Driven Organizations	742
<i>Saed Adnan Mustafa, Sakher M.A Alnajdawi, Mahmoud Alghizzawi, Malek Ali Alnajdawi Hazem ALKasassbeh Marketing</i>	

Assessing the Technical and Legal Dimensions of Artificial Intelligence for Organizational Sustainability	748
<i>Mohammad Mahmoud Saleem Alzubi, Anwar Al-Gasaymeh, Nour Ibrahim Kurdi, Ahmad Ali Salih Bilal Nayef Zureigat</i>	
Digital and Technological Transformation in the Customs Taxation Sector	753
<i>Mohammed Subhi Rashid, Ibrahim Abdallah Abdelraouf Mohamed, Abbas Moufarrej Fahel Yacob</i>	
The Impact of Social Engineering on Cybersecurity Risks in the Banks	762
<i>Sinan Raheem Jasim, Marwan Hammoodi, Ahmed Talib Hameed, Abdul ameer AL-Ali</i>	
The Impact of Financial Structure Components on Reducing Banking Risks: A Field Study on a Sample of Banks Operating in GCC	767
<i>Mamdooh Attallah Faihan, Ali Abdulazeez Ied Alshammari, Saeed Khaled Salman Ali Shuaaib Abdulmutalib Ibrahim, Manaf Ahmed, Hameed Ali Saleh</i>	
Regulatory Technology (Regtech) in Financial Technology: Examining Its Impact on Compliance Efficiency, Risk Management, and Organizational Performance in Jordanian Financial Institutions	773
<i>Hasan Alhanatleh, Abdallah Ali Mohammad Alrifae, Esra'a Reda Zaid, Mastura Ab. Wahab Hadeel Alfreihat</i>	
Digital Sovereignty and Data Localization in International Legal Systems: Trying to Balance State Control and the Global Digital Economy	778
<i>Ahmad Aqeil Alzaqibh, Husein Bani Issa</i>	
Social Media Recommendations and Impulsive Buying: The Roles of Fear of Missing Out, Stalking, and Digital Fatigue	784
<i>Kurnia Puji Smith, Domingos Elisito Do Espirito Santo, Ridho Bramulya Ikhsan, Dara Savor Hartiwi Prabowo, Teguh Sriwidadi</i>	
Exploring the Impact of Cultural Diversity on Female Employees' Work Behavior: An Empirical Study at King Fahd University of Petroleum and Minerals	791
<i>Tahani bin Ashwan, Dr. Khairi Omar</i>	
The Role of Digital Transformation in Improving the Quality of Work Life in Light of Saudi Vision 2030: An Empirical Study of International Schools in the Eastern Province	799
<i>Dakhilallah Abdullah Aldossary, Khairi Omar</i>	
The Impact of Digital Transformation on the Efficiency of Purchasing Operations: An Applied Study on Nass Contracting Company in the Kingdom of Bahrain	806
<i>Fedha Almoathen, Khairi Omar</i>	
Empowering Bahraini Youth: How Social Media Shapes Political Awareness and Engagement	811
<i>Latefah Altahhan, Dana Alsadig, Rashed Alrasheed</i>	
Lettuce Leaf Disease and Deficiency Detection Using EfficientNetb3	821
<i>Kalikiri Niranjana, T. Jayakumar, Ayush Singh Bangari, Kanegonda Ravi Chythanya</i>	
Lightweight MobileNetV2-Based Framework for Automated Money Plant Disease Classification in Precision Horticulture	826
<i>Pratham Kaushik</i>	
A Deep Transfer Learning Framework Based on EfficientNetB4 for Robust Neem Leaf Disease Diagnosis	832
<i>M Amreen, Seeniappan Kaliappan, Kanegonda Ravi Chythanya, Disha Garg</i>	

ResNet101-Based Classification of Night Jasmine Leaf Diseases Using Transfer Learning	838
<i>K. Uma Maheswari, Seeniappan Kaliappan, R Sujitha, Disha Garg</i>	
DenseNet169-Based Transfer Learning Framework for Robust Multi-Class Tea Leaf Disease Detection and Classification	844
<i>Nageswara Rao Putta, Manikandan I, Rishabh Bhasin, K Kiran</i>	
An Intelligent AR–VR Assisted Cognitive Therapy Framework for Spasticity Treatment in Children	850
<i>ShobhaChristila S, Rajesh Kanna R, Namosri VG, Shwetha S, Oviya S, Satheeshkumar V</i>	
IoT-Enabled Intelligent Smart Fitness Bands for Muscle Growth and Performance Analytics Using EMG Signals	858
<i>Deeparani. M, Bhuvaneshwaran. B, Abishek. N, Sangeethraj. B, Ashokkumar. K</i>	
An Intelligent Automated Prescription Processing and Medicine Inventory Management System for Smart Healthcare	866
<i>Ragunath R, Prabhakaran D, Aswin O, Ashok M P, Karthick T</i>	
An Intelligent Multilingual Text Transformation Framework for Inclusive Digital Communication	874
<i>Geetha, J. Aruna, N. Manjushri, S. Harishini, S. Dhanya Shree, K. Yazhini Prithika</i>	
An Intelligent Digital Entrepreneurial Hub Platform for Sustainable Business Ecosystems	883
<i>Hemalatha T, Ms. Thenmozhi S, Mr. Guruprasanth M, Mr. Yugeshwar N</i>	
Deep Learning-Based Waste Classification Using Convolutional Neural Networks for Smart Waste Management	892
<i>Khakam Ma'ruf, Apriy Aditya Saputra, Rizal Justian Setiawan, Nur Azizah, Darmono</i>	
Automated Industrial Surface Defect Detection on Bolts Using Deep Learning	898
<i>Oğuz Ergin, Emre Güçlü, İlhan Aydın, Erhan Akın, Yunus Emre Uyanık</i>	
Optimization Of Detection and Calculation of Overlapping Mango Fruits and Illumination Variations Using Yolov11-Seg with Unsharp Masking Algorithm, Gamma Correction	903
<i>Muh. Ikhsan, Novy Nur R.A Mokobombang</i>	
YOLOv11-Based Real-Time License Plate Detection and Recognition for Smart Transportation Systems	913
<i>Nitya J, Dharshini V, Fathima Jemima, Pradheesh P G, Tharun P M</i>	
EdgeFishCam: An Edge AI-based Fish Detection Through YOLO and Image Enhancement Techniques	922
<i>Nurul Asmi Amalia, Kahlil Muchtar, Hizir Sofyan, Hammam Riza, Muhammad Subianto, Maya Fitria</i>	
AI-Integrated Digital Twin Framework for Quality and Performance Management in Sustainable Buildings	929
<i>Mohammed Abdulrazzaq Alaghbari, Aawag Mohsen Alawag, Yasser El-Kassrawy, Mourad Mansour Saleem Ahmed Al-Azazi, Basheer M. Al-Ghazali</i>	
AI in National Security: Arab Public Perceptions on Ethics, Trust, and Digital Sovereignty	934
<i>Rashed Alrasheed, Asma Elmanaseer, Isa Alkhoohiji, Ohood Mahmoud, Mona Almarri, Nujood Aljasim</i>	
The Role of Artificial Intelligence and Technology in Enhancing the Position of Middle States in the International System	942
<i>Fahad Alsaffi, Hamza Bouzoubaa, Rashed Alrasheed, Nawfal Dyaa Thalji</i>	

A Comparative Study of AI Agents in the Kingdom of Bahrain	951
<i>Sara Alshakrani, Mohammad Alaa Al-Hamami</i>	
A Decision-Oriented Machine Learning Framework with Uncertainty Signals for Strategic Dealer Network Expansion	957
<i>Mario Marfelly, Achmad Choiruddin</i>	
An AI-Driven Intelligent Imaging Framework for Sustainable and Accurate Dermatological Diagnosis	962
<i>Rajesh Kumar T, Kabila B S, Mahesh Boopathi A P, Hemalathaa K</i>	
A Survey on Intelligent Technologies for Precocious Puberty Analysis Using Multisource Healthcare Datasets	970
<i>P. Ezhilarasi, T. Sree Kala</i>	
Inferential Classifier of Affective Responses and Emotions (I-CARE): A BERT-Based Support Tool for Anxiety, Depression, and Bipolar Detection	977
<i>Dean Cain P. Lopez, Vincent Peter C. Magboo, Ma Sheila A. Magboo</i>	
A Multi-Model Intelligent Learning Framework for Predictive Life Blueprint Generation	984
<i>Tejo Sharan A. M, Nirmal Kurian Thomas, Hirthik G, Ms A Benazir Begum</i>	
Deep Learning-Based Protein Structure Pattern Recognition for Intelligent Cervical Cancer Diagnosisanalytics	991
<i>Venkata S P Dendukuri, Akshiitha Kamasani, Harika Chennupati, Leela Aditya Dakoju Suvarna Vani Koneru</i>	
Investigating Cross-Subject Generalization and Personalized Modeling in EEG-Based Cognitive Understanding Prediction for Intelligent Learning Systems	999
<i>Boumedyen Shannaq, Oualid Ali, Said Almaqbali</i>	
Hybrid Physical–Machine Learning Model for Photovoltaic Power Prediction Under Semi-Arid Climate Conditions	1007
<i>Mustapha Ezzini, Mohammed Ennejjar, Raja Mouachi, Abdelali El Gourari, Mohammed Boukendil Mustapha Raoufi</i>	
The Impact of Using Search Engine Optimization (SEO) Techniques in Improving and Developing Electronic Marketing	1013
<i>Worood Ahmad Melhem, Ibrahim A. Abu-AlSondos, Aws Raed Mahafdhah, Mahmoud Alghizzawi Elham Mahmoud Chehaimi, Saeed Hameed Aldulaimi</i>	
The Impact of Facebook Television Broadcasting on Audience Engagement During the Türkiye Earthquake: Al Arabiya Perspective	1020
<i>Mohammed Habas, Mahmoud Alghizzawi, Nawzat Saleh Abualasal, Ibrahim A. Abu-AlSondos Soha Salem El Mokdad, Marwan Mohamed Abdeldayem</i>	
An Intelligent and Sustainable Storage Scheduling Framework Based on Environmental Impact Metrics in Data Networks	1027
<i>S. Saleth Mary, T. Sree Kala</i>	
Gender Matters, Education Does Not? Board Characteristics and ESG Performance in Indonesia	1034
<i>Kiki Ayuandani, Nuraini A Nuraini A, Islahuddin</i>	
Carbon Tax and Willingness to Pay: Evidence From High-Pollution Industries in Indonesia	1040
<i>Maulia Sabrina, Nuraini A Nuraini A, Rita Meutia, Juanda Surya</i>	

Sustainable Banking System Performance and Insolvency Risk: A Dynamic Panel FMOLS Analysis of Iraqi Banks	1050
<i>Khadija Al-Jumaili, Wisam Al-Anezi</i>	
The Impact of Green HRM Practices on Environmental Organizational Citizenship Behaviors: The Mediating Role of Organizational Culture	1060
<i>Marwan Thakir Abed Aldosiry, Zainab Tawfeq. A, Basim Faisal Abdul Nayef, Sakher. Alnajdawi</i>	
Digital Leadership and Smart Governance: An AI-Driven Analysis of Leadership Competencies and Strategic Challenges	1068
<i>Abdulsalam Ali Hussein Alnoori, Huda Qasim Saeed, Bassam Mohammed Khalaf Basim Faisal Abdul Nayef, Yousif Dolab Yousif, Saeed Hameed Aldulaimi</i>	
Innovation in Electronic Medical Records Development Based on Fast Healthcare Interoperability Resources	1076
<i>Qomaruddin Qomaruddin, Nur Aini Rakhmawati</i>	
GPS-Aided Attitude and Position Estimation for Aircraft Stability and Control Systems: A Comprehensive Survey	1082
<i>Rami Ahmed Mohammed, Mohammed Qasim Sulttan, Wisam Essmat Abdul-Lateef</i>	
A Hybrid Forecasting–Fleet Allocation Framework for Demand-Driven Logistics Operations: Evidence from Rail-Based Freight Distribution in Indonesia	1088
<i>Jumaran Dini, Miftahol Arifin, Yulinda Uswatun Kasanah</i>	
The Impact of Influencer Marketing on Product Perception and Its Effect on Purchase Intention in Indonesia's Beauty Industry	1094
<i>Arneta Marsya Nafisa, Zefanya Ekberg Dip Kaur, Yuniarty</i>	
Business Intelligence Systems as a Strategic Driver of Digital Innovation	1100
<i>Ibrahim A. Abu-AlSondos, Rana Hussein Frangieh, Saeed Hameed Aldulaimi, Worood Ahmad Melhem Mahmoud Alghizzawi, Aws Raed Mahafdhah</i>	
BIM Digital Twins and Generative Artificial Intelligence for Risk and Carbon-Aware Construction Management	1107
<i>Saleem Ahmed Al-Azazi, Abdullateef Ali, Ezzaldeen Al-Tayar, AAA Ghaleb, Farag Qasem, Amin Saif</i>	
AI-Enabled Technology Adoption Models for Smart Construction and Facility Operations	1112
<i>Saleem Ahmed Al-Azazi, Musmuliadi Kamaruding, Mohammed Abdulrazzaq Alaghbari, Amena Y. Mutahar Khalil Idrissi Gartoumi, Abdullah O. Baarimah</i>	
Performance Validation of Daylighting and Energy Use in Multi-Unit Residential Buildings	1117
<i>Joanna Rywak, Mohamad T. Araji</i>	
Sustainable Building Energy Performance Assessment Using a Hybrid LLM-RAG Framework	1123
<i>Muhammad Arslan, Fahad Mehmood, Zainab Riaz, Saba Munawar</i>	
Smart Facility Management of Sustainable Buildings Using AI and IoT Technologies	1128
<i>Aawag Mohsen Alawag, Mohammed Abdulrazzaq Alaghbari, Yasser El-Kassrawy, Amena Y. Mutahar Saleem Ahmed Al-Azazi, Abdullah O. Baarimah</i>	
ConvNeXt-Based Automated Blood Cell Classification for Accurate Cancer Detection from Microscopic Images	1133
<i>D V Sai Sireesha, T. Roseline Velankanni, K Kiran, Eshika Jain</i>	

Eye Focused Efficientnetb3 for Lightweight and Accurate Crossed Versus Normal Eye Classification	1139
<i>S. Leela Lakshmi, Seeniappan Kaliappan, Md Ankushavali, Avani Mittal</i>	
Deep Feature Reuse for Monkeypox Skin Lesion Classification with DenseNet121	1145
<i>Shyam Sunder Pabboju, S. Selvakanmani, R Sujitha, Avani Mittal</i>	
Multimodal Causal Fusion Network for Robust Imaging-Genomic Colorectal Cancer Survival Prediction with Counterfactual Regularization	1151
<i>NE. Sravani, T. Roseline Velankanni, R Sujitha, Mansi Aggarwal</i>	
Gated Cross-Attention Fusion of CNNs and Vision Transformers for Explainable Cardiac Image Classification	1157
<i>Putta Nageswara Rao, S. Selvakanmani, K Kiran, Ryan Sharma</i>	
Developing Machine Learning Models for Automated Text Classification in Legal Documents: A Traditional NLP Approach	1163
<i>Mr. Suraj Gupta, Natthan Singh, Er. Deepali Avasthi, Er. Chandan Mani Tripathi</i>	
Text-Based Mental Health Classification	1173
<i>Sara Alshakrani, Mohammad Alaa Al-Hamami</i>	
Risk-Aware Calibration and Interpretable Baselines for Mental Health Text Classification	1177
<i>Pulivarthi Bindumadhavi, Seeniappan Kaliappan, Kanegonda Ravi Chythanya, Ayush Singh Bangari</i>	
Hybrid User Profiling with TF-IDF and Cosine Similarity for Personalized Academic Book Recommendation	1183
<i>Muhammad Haikal Md Imran, Zarina Dzolkhifli, Mohd Hafiz Mohd Hassin, Suryanti Awang</i>	
EmotionFocusNet: An Attention-Driven Model for Facial Expression Understanding	1189
<i>P. Kiran Kumari, T. Roseline Velankanni, Nagendar Yamsani, Rishabh Bhasin</i>	
An Intelligent Model for Cardiovascular Disease Prediction Using a One-Dimensional Convolutional Neural Network	1194
<i>Khattab M. Ali Alheeti, Ahmed Adil Nafea, Yaqin Taher Al-Ani, Hamsa M. Ahmed, Aythem Khairi Kareem</i>	
An Intelligent Deep Learning Framework for Brain Tumor Segmentation and Classification Using MRI Images	1200
<i>K. Mythili, Aswin G, Kavim A J, Heemanush C P</i>	
An Intelligent 3D Convolutional Neural Network Framework for Stroke Detection and Risk Assessment	1208
<i>Ashwath Krishna U, Pranav Kumar P, Yoga Darsa V M</i>	
Influencer Attractiveness, Expertise, and Trustworthiness: Effects on Brand Image, Relational Quality, and Premium Price Purchase Intention in Skincare Products	1216
<i>Savira Rahmatullah Pahlevi, Devi Anisatul Mawadah, Fanni Yuliani, Yuniarty</i>	
Churnnet: An Intelligent Machine Learning Framework for Sustainable Customer Retention in Telecommunication Systems	1222
<i>N. Varatharajan, P. Gowtham, M. Harish, C. Vinayaga Moorthy, S. Joel</i>	
Innovation-Pollution Dynamics in a Nonlinear Reaction-Diffusion Framework	1230
<i>Luca Bargna, Davide La Torre</i>	

A Blockchain-Based Traceability Framework for High-Value Electrical Asset Logistics in Electricity Distribution Systems	1238
<i>Rohma Chynta Yuliawati, Miftahol Arifin, Syarif Hidayatuloh</i>	
AI-Driven Demand Forecasting Framework for Inventory Risk Evaluation in Make-to-Stock Cement Production Systems	1248
<i>Dianita Dwiyanti, Miftahol Arifin, Yulinda Uswatun Kasanah</i>	
Building Information Modeling-Enabled Safety Digital Twin for Proactive Construction Safety and Schedule Reliability	1258
<i>Abdullateef Ali, Saleem Ahmed Al-Azazi, AAA Ghaleb, Amin Saif, Farag Qasem, Ezzaldeen Al-Tayar</i>	
An Intelligent DDoS Protection Architecture for Secure and Scalable Cloud Systems	1263
<i>M. Balasubramani, S. Arivarasan, Arulamuthan R, Harish V, Jayakumar B, Logesh S</i>	
Measuring the Extent of Bahraini Public Awareness of the Role of Artificial Intelligence in Spreading Fake News	1271
<i>Eman Almughwi, Maha Al-Ajji, Rashed Alrasheed</i>	
An Ai Intelligence Wellness Framework Integrating Image Recognition and Conversational Ai for Preventive Healthcare	1279
<i>S Arivarasan, C Manonmani, Logesh. M, Jaiyanth. B, M. Kishore Kanitkan, J. Kishore Kumar</i>	
Large Language Model-Supported Label Expansion for Multi-Label Classification of Turkish E-Commerce Reviews	1287
<i>Oğuz Ergin, İlhan Aydın, Mehmet Kaya</i>	
Beyond Behavioural Signals: Personality-Aware Graph Neural Networks for Holistic Person-Job Fit	1292
<i>Prabhu Gurung, Jad Abbass</i>	
FoodWise: AI-Powered Health Assessment of Packaged Foods	1298
<i>Rahma A Alzahrani, Batool Alkhadrawi, Ayah Alghazwi, Fatimah Alyousef, Zahra Allabbad Zainab Alashoor, Alaa Alahmadi, Garsah Alqarni</i>	
Optimization of Production Costs: A Numerical Methods Approach	1305
<i>Stephane Kim Asis, Hazel De Torres, Anne Margarette Sagun, Vince Hero Factor, Mariz J. Prado Mirasol C. Dilay, Anela L. Salvador, Selverino A. Magon</i>	
A Systematic Review of AI in Leadership, Sales, and Management: Techniques, Use Cases, and Future Directions	1310
<i>M Sharmila, Prasanth N, Arjun, V Sumalatha</i>	
PsychBERT: Domain-Adaptive Longitudinal Representation Learning for Trajectory-Based Clustering of Psychiatric Disorders from Electronic Health Record Narratives	1316
<i>Ankit Kumar Bhasker, Abhishek Singh, Girish Chandra, Somesh Yadav</i>	
An Inverse Problem for Cellular Automata on Probability Measures with Application to Pollution Diffusion Modelling	1324
<i>Amelia Kunze, Enrico Formenti, Davide La Torre</i>	
Blockchain-Based FinTech Solutions for Secure, Transparent, and Decentralized Financial Services	1332
<i>Nour Kattawi, Farah Abu-Dabaseh, Mohammed H M Qeshta, Hadeel Alfreihat</i>	

Technical Advancements and Strategic Frameworks for the Maintenance and Repair of Civil Infrastructure Using Fiber-Reinforced Polymer (FRP) Materials	1336
<i>Ahmed Alshaikha, Hamdy M. Mohamed, Mohamed Abduljalil Alam</i>	
The Avenue 105 Flyover: Improving Traffic and Infrastructure in Bahrain	1342
<i>Husain Yusuf Merza, Ahmed Elmetwally, Majdi Yousif Mahfoodh, Hamad Ebrahim Badhaw Ahmed Alshaikha, Hamdy M. Mohamed</i>	
Integration of Halal-Haccp and Fmea in Supporting Erp-Odoo Based Halal Traceability System in the Beef Processing Supply Chain	1346
<i>Januar Rahmat, Nabila Noor Qisthani, Miftahol Arifin</i>	
Mapping Halal Integrity Risks in Halal Fashion Supply Chains: A Risk-Based Resilience Framework	1356
<i>Aisya Nadiefa Shabira, Nabila Noor Qisthani, Syarif Hidayatullo</i>	
A Compliance-Based Framework for Green Supply Chain Management: Governance Pathways to Sustainable Performance	1366
<i>Enda Apriani, Elisa Kusriani, Jaka Nugraha, Is Fatimah</i>	
A Critical Evaluation of Reverse Logistics Implementation in Estimating Sustainability Profit for Used Lead-Acid Battery (ULAB): Evidence from ULAB Management Practices in Banyumas	1373
<i>Firman Syah Isrofil Putra, Ratih Windu Arini, Yulinda Uswatun Kasanah</i>	
Analysis of Factors Contributing to Household Waste Generation and its Management Efforts in Purwasaba Village	1381
<i>Novel Tri Buana, Aswan Munang, Henry Dwi Prihartanto, Musaddad Amin, Lawrencius C.K Panjaitan Nagusta Tri Budiawan</i>	
AIF-MFF: Adaptive Inference Framework for Multi-Focus Image Fusion Via Dynamic Receptive Field Modulation and Cross-Scale Contrastive Alignment	1386
<i>A. Sudharani, Ramya M, Jayapal Lande, Ridhi Jain</i>	
Graph Neural Transformer with Structural Attention Bias for Robust Multi-Disease Soybean Leaf Classification	1392
<i>K Venkataramana, M. Shanmugapriya, Mansi Aggarwal, R Sujitha</i>	
Bridging Epidemiology and Vision Transformers for Reliable Early Detection of Onion Leaf Blight	1398
<i>G. Bhanumathi, S. Kaliappan, K Kiran, Yashika Bhaghal</i>	
A Hybrid CNN-Swin Transformer Architecture with Gated Feature Fusion for Robust Field-Scale Mango Anthracnose Detection	1404
<i>Madhamanchi Sreevani, S. Kaliappan, K Kiran, Yashika Bhaghal</i>	
Operational Performance Evaluation of Linked Signalized Intersections and Metered Roundabouts Using SIDRA	1410
<i>Sohaib Abed, Mustafa Albdairi, Ali Almusawi</i>	
Intervening Food Waste Reduction Under Digital Technology in the School Feeding Program: Barriers and Future Agenda	1419
<i>Dian Alviana, Fauzan Romadlon, Dodi Zulherman, Wan Nurul Karimah Wan Ahmad</i>	
Usability Evaluation of a Smart Farming System Using System Usability Scale (SUS)	1426
<i>Syazwani Nadhirah Zolkefile, Azma Abdullah, Suryanti Awang, Mohd Hafiz Mohd Hassin Mansoor Abdulhak</i>	

Digital Network, Ergonomic Perspective, and Lean Supply Chain Strategies for Operational Excellence in Tourism Villages	1432
<i>Ahmad Raihan Maulana Abdurrahman, Atyanti Dyah Prabaswari, Achmad Reza Pribadi</i>	
<i>Gayuh Minang Lati</i>	
Optimizing Livestock Feed Distribution Routes Using K-Means Clustering and Ant Colony Optimization	1442
<i>Haninvia Haris Herlani, Syarif Hidayatulloh, Miftahol Arifin</i>	
What Drives Consumers to Purchase in Live Streaming Marketplaces? A Systematic Review of Motivational Mechanisms	1448
<i>Anisah Mutmainah, Reny Nadlifatin</i>	
Integrating the AI-Enterprise Resource Planning (ERP) in the Free Meal Program: Current Situation and Future Plan	1454
<i>Nurul Anisa, Fauzan Romadlon, Dodi Zulherman, Ega Adrianto, Abdul Hamid</i>	
Operationalizing Generative and Agentic AI Across Complex Logistics Networks: Architecture, Governance, and Trust Models	1460
<i>Nirmal Kumar Jingar</i>	
Leveraging Large Language Models and Autonomous Agents for Unstructured Supply Chain Intelligence	1467
<i>Nirmal Kumar Jingar</i>	
A Hybrid Intelligent Modeling Framework for Closed-Loop Pallet Reverse Logistics: Structural Analysis, Simulation, and Decision Optimization	1473
<i>Dzikra Hanaya Farizqi, Miftahol Arifin, Ratih Windu Arini</i>	
Comparative Analysis: Autoregressive Integrated Moving Average with Exogenous Variables and Long Short-Term Memory for Working Capital Forecasting: Container Repair Small and Mid-Size Enterprise	1483
<i>Alfian Ulfadi, Achmad Choiruddin</i>	
An Intelligent Audio-to-Sign Language Translation System Using 3D Avatars for Inclusive Communication	1489
<i>Pranav S, R. Rohan, Sai Kiran S, Sidharth K, Divya Ebenezer Nathaniel</i>	
Beyond Words: An Intelligent British Sign Language Dataset for AI-Driven Assistive Communication Systems	1497
<i>Bellapu Ravvala Sricharan, Bhavanasi Venkatramana, Pavan Madduru, Laxmi Shravani</i>	
An Intelligent Gesture-Based Assistive Framework for Smart Presentations and Human-Computer Interaction	1505
<i>Shital Dongre, Ayesha Pathan, Parishnav Thokal, Aayusha Marne, Vedant Motale</i>	
A Vision Transformer-Based Classification Approach for the Turkish Sign Language Letters	1513
<i>Merve Erkuş, Mehmet Kaya</i>	
ACVA: An Intelligent Voice-Enabled Agricultural Chatbot Using Deep Learning and NLP for Sustainable Farming Support	1518
<i>Kalingarani G, Rahul Britto I, Puvanesh B A</i>	
Deep Learning and Partially-Observed Boundary Conditions for Reaction-Diffusion Equations: Numerical Experiments With Pollution Data	1526
<i>Amelia Kunze, Herb Kunze, Davide La Torre</i>	

An Intelligent Secure Financial Document Classification Framework Using CNN and OCR-Extracted Text	1531
<i>Sonali Mondal, Moti Ranjan Tandi, Sotivoldiyeva Sarvinoz Kahramon Kizi</i>	
<i>Abo Tabik Al Hussein Abdulmunem Ahmed, Varalatchoumy M, M. Murali</i>	
An Improved Intelligent Double-Fuzzy Physical Unclonable Function for Secure Key Encryption and Authentication in Iot Systems	1539
<i>K. Akila, S. Padmapriya, Farjana Farvin Sahapudeen, A.T.Barani Vijayakumar, T.Nandhini Raju</i>	
<i>R. Rajavaishnavi, K. Jeeva</i>	
QLoRA Fine-Tuning for Next User Turn Prediction and Multi-Step Dialogue Rollouts	1548
<i>Sebastian Boehler, Tianxiang Lu</i>	
Prediction Landslide Susceptibility Using Artificial Intelligence Methods	1556
<i>Abdelrhani Ajraoui, Said Chakiri, Abdelkrim Saouabe, Mohamed Benhaddou, Abdelouahed Essaied</i>	
<i>Abdelmourhite Aboulfaraj, Oussama Laassilia, Anas Lhachmi, Abdallah Laaraj, Raja Moussaoui</i>	
Imbalance-Aware Machine Learning for Rural Drinking Water Quality Classification Using Low-Cost Sensor Data	1562
<i>Priti S Pavale, Prasanth N, Nitika Verma, Jayapal Lande</i>	
Evaluation of Proposed ANN Model in Predicting RC BCJ Strength: Comparison with Literature Data	1568
<i>Mohamed Salama, Ranim Maatouq</i>	
Implementation and Performance Analysis of Proposed ANN model for Unreinforced Exterior RC Beam-Column Joint Strength	1574
<i>Mohamed Salama, Ranim Maatouq</i>	
Predicting Climate-Driven Infrastructure Failure Using Calibrated Risk Modelling	1581
<i>P Dhanuja, M.D.Raj Kamal, Md Ankushavali, Sneha</i>	
Resilience-Aware Bridge Condition Screening Using Machine Learning on the 2025 FHWA National Bridge Inventory	1587
<i>K Lakshmi, T. Jayakumar, Ritika Joshi, V Sumalatha</i>	
BIM Interoperability and Environmental Analysis in Planning and Pre-Construction Phases	1594
<i>Wael Abdelhameed, Jennifer Hardi</i>	
A Regional Analysis of BIM Maturity and Adoption within the GCC AEC Sector	1599
<i>Wael Abdelhameed</i>	
An Integrated User Acceptance Model for Mobile Start Work Check Applications Using TAM, UTAUT, and DeLone-McLean	1603
<i>Tyarso Bhari Permana, Nur Aini Rakhmawati</i>	
A Study on Using Revit in Architectural Design Studios	1610
<i>Wael Abdelhameed, Jennifer Hardi</i>	
Integrating Design Thinking and House of Quality for User-Centric MSME Franchise Marketplace Development	1616
<i>Mukhammad Arda Ardiansyah, Nur Aini Rakhmawati</i>	
Productivity Improvement Analysis Using FlexSim Simulation: A Case Study at Electronics Company	1622
<i>Eko Vieri Kurniawan, Aswan Munang</i>	

Mechanical Performance Optimization of Eco-Friendly Rice Straw Nanocellulose Bioplastic	1628
<i>Aswan Munang, Ahmad Wahyu Setiawan</i>	
Analysis Quality Control of Cement Paper Bag Production at PT Xyz	1633
<i>Marliana Nida Fadillah, Aswan Munang, Lawrencius C.K Panjaitan, Musaddad Amin, Gayuh Minang Lati Ega Adrianto</i>	
An Intelligent Computational Study on the Effect of Corrugated Limiting Tab Geometry on Supersonic Jet Mixing	1640
<i>Yograj Chawan, Uday kiran U, Saikumar, Maruthupandiyan K</i>	
The Influence of Artificial Intelligence on Management Effectiveness Through Transformational Leaders' Decision-Making	1647
<i>Bui Thanh Khoa, Tran Trong Huynh, Duong Kim Ngoc</i>	
Spatio-Temporal Facial Emotion Recognition Using a Hybrid CNN–LSTM Framework	1652
<i>Gudivada Lokesh, S. Kaliappan, V Sumalatha, Sneha</i>	
Adaptive Gated Hybrid CNN Swin Transformers for Stage Aware Sugarcane Anthracnose Diagnosis	1657
<i>T V Prathima, S. Kaliappan, R Sujitha, Ritika Joshi</i>	
Gated Cross-Attention Fusion: An Interpretable Multi-Modal Framework for Intelligent Healthcare Diagnostics	1663
<i>K. Baby, S. Kaliappan, Jayapal Lande, Yashasvi Saini</i>	
A Deep Transfer Learning Framework for Fresh and Rotten Fruit Classification Using EfficientNet-B3	1669
<i>Shyam Sunder Pabboju, Ananadan Shailaja, Kanegonda Ravi Chythanya, Nitika Verma</i>	
Parameter Optimisation in the Printing Process of Medical Display Models Using PETG Material with Fused Deposition Modelling (FDM) Technique	1675
<i>Muhammad Alim Safa'at, Aiza Yudha Pratama, Dina Rachmawaty</i>	
Integration of Artificial Intelligence and Total Quality Management in Manufacturing Projects for Industry 5.0	1681
<i>Saleem Ahmed Al-Azazi, Mohammed Abdulrazzaq Alaghbari, Mourad Mansour, Basheer M. Al-Ghazali Abdullah O. Baarimah, Aawag Mohsen Alawag</i>	
Critical Success Factors for Sustainable Village Tourism Development: A Conceptual Framework	1687
<i>Wahyudhi Sutrisno, Elisa Kusriani, Winda Nur Cahyo, Agus Mansur</i>	
GhostNetV2-Based Lightweight Deep Learning Framework for Automated Betel Leaf Disease Classification	1697
<i>Boyapati Bharathi, Seeniappan Kaliappan, Nagendar Yamsani, Aditya Sain</i>	
MobileNetV3-Large-Based Lightweight Deep Learning Framework for Automated Vanilla Plant Disease Classification	1703
<i>M. Neelima, Premkumar Dhanasekar, Diya Agnihotri, R Sujitha</i>	
RobustCNN-4: An Efficient Deep Learning Framework for Deepfake Detection	1709
<i>Everlyn Yin Jia May, Rasha Ragheb Atallah, Lip Yee Por, Amirrudin Kamsin, Hannyzzura Binti Pal Affal Nornazlita Hussin, Omar Mohammad Alquabeh, Ala'a M. Al-Momani</i>	
The Legal Validity and Evidentiary Value of Artificial Intelligence-Generated Digital Evidence	1716
<i>Qais Maaitah, Marwah Imad Alghazali, Anas Abdulkadhim Jasim, Jenan Ali H</i>	

Artificial Intelligence in E-Commerce and Consumer Protection: Legal Challenges and Regulatory Responses in Digital Markets	1721
<i>Qais Maaithah, Marwah Imad Alghazali, Sabah Awad Salman, Elsaka Maha, Mohammed Isam Fahem</i>	
Smart Technology, Law, and Sustainable Development: Building Integrated Regulatory Frameworks for the Digital Era	1726
<i>Qais Maaithah, Mohammed Khalid Buraa, Bader Ahmed Whaieb Taha, Marwah Imad Alghazali, Elsaka Maha, Khudr Bary Freeh Alsrray</i>	
When Algorithms Harm: Reframing Civil Liability for Artificial Intelligence in Civil Law Systems	1730
<i>Hameed Ibrahim Handhal, Mahmoud. Ebrahim, Ali Fareed Saeed</i>	
Legal Protection of Artificial Intelligence Technologies: Balancing Innovation, Accountability, and Digital Transformation	1736
<i>Mohammed Abed Hammadi, Maan Yaseen Jabbar, Nidhal Raheem Mardood</i>	
Enhancing Agricultural Productivity Through Deep Learning-Based Disease Detection	1741
<i>S. Murugavalli, R. Gopi</i>	
Drinking Water Requirement Prediction Using AI Techniques	1749
<i>Yasir Ahmed Al-zubaidi, Dr. Mukta G. Dhopeswarkar, Sarika Awami</i>	
Mapping Livability Preferences in Urban Areas: A Fuzzy Clustering Technique for Districts of Istanbul	1758
<i>Elifnaz Olgac, Ali Karasan, Ihsan Kaya</i>	
Intelligent Data Analytics and Visualization of Smart Bins for Sustainable Waste Management Systems	1763
<i>Dr. R. Varalakshmi, Shruthi Senthilkumar, Pooja. V, Akshaya Ramadurai</i>	
Detection of Leaf Spot Disease Through Edge AI-Based Detector	1772
<i>Nabila Safira Hamdani, Kahlil Muchtar, Al Bahri</i>	
The Role of Augmented Reality in Fostering E-Buying Decision of Fashion Products of Gen Z in Vietnam	1778
<i>Tuan-Kiet H.V. Truong, Uyen Thi Thao Tieu</i>	
Driving Sustainable Fashion: How Green Supply Chain Activities Shape the Purchase Intentions of Future Business Professionals?	1784
<i>Dat Quang Tran, Tuan-Kiet H.V. Truong</i>	
Digital Justice and Artificial Intelligence: Electronic Litigation Role on Accelerating the Resolution of Administrative Disputes	1790
<i>Saraqa Ahmed Jumaa, Alaa Hussein Ali, Abed Rzaij Aswad, Zaid Khalid Saleh, Marwan M. Abdeldayem, Ali hameed Ali</i>	
AI-Enabled Driving Assistance: A Review of Transformer and Yolo-Based Deep Learning for Lane Detection and Collision Warning	1798
<i>P. Ramesh Babu, K. Gangadhara Rao, T. Satyanarayana Murthy, Shiva Krishna Cherala, Saikumar Eega, John Basipaka</i>	
The Role of Inspirational Leadership in Enhancing Innovative Thinking Among Employees	1805
<i>Ahmed Kh. Muttar</i>	