Editorial Preview for October 2025 Issue

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Abstract - The October 2025 issue of the Journal of Informatics and Web Engineering (JIWE) concludes the journal's triannual publication cycle and precedes its transition to a quarterly schedule commencing in 2026. This issue presents 21 research papers within its regular section, covering a wide range of areas including Artificial Intelligence (AI), Machine Learning (ML), Software Engineering, Recommender Systems, Cybersecurity, and Web Technologies. The collection reflects JIWE's ongoing effort to advance research in the informatics and web engineering domain. A special thematic section, guest-edited by Prof. Ts. Dr. Hairulnizam Bin Mahdin, centers on "AI-Enhanced Computing and Digital Transformation". The featured studies examine the role of AI in driving organizational efficiency, innovation, and sustainable digital growth. Several papers in this issue also align with the United Nations Sustainable Development Goals (SDGs)—notably SDG 8 (Decent Work and Economic Growth) through studies on intelligent automation, SDG 9 (Industry, Innovation, and Infrastructure) via research on digital platforms and system design, and SDG 11 (Sustainable Cities and Communities) through innovations supporting smart and sustainable urban development. Beginning in January 2026, JIWE will adopt a quarterly publication schedule (January, April, July, and October), reflecting the journal's steady expansion and continued commitment to disseminating rigorous, high-impact research in informatics and web engineering.

Keywords— *Editorial Preview, Digital Transformation, Artificial Intelligence, Recommender Systems, Software Engineering, Web Technologies, Cybersecurity, Machine Learning, Sustainable Development Goals*

PREVIEW

In this issue, we bring you 20 cutting-edge articles in our regular section, along with 10 exciting contributions in the ""AI-Enhanced Computing and Digital Transformation" thematic section, including editorial insights from our Thematic Editor. These selected articles are from various countries such as Pakistan, China, Malaysia, Taiwan, Vietnam, Indonesia, Iraq, Nigeria, Sri Lanka, Yemen, India, United States and the United Kingdom. These papers are: Pavement Distress Analysis in Malaysia: A Novel DeepSeg-CrackNet Model for Crack Detection and Characterization Using Real-World Data [1], Enhancing Zero Trust Cybersecurity using Machine Learning and Deep Learning Approaches [2], The Role of Generative AI in e-Commerce Recommender Systems: Methods, Trends and Insights [3], Training the Brain: A Machine Learning Approach to Predicting Wellbeing Through Intentional Thought Pattern Modification [4], Hybrid-Based Movie Recommender System: Techniques, Case Studies, Evaluation Metrics, and Future Trends [5], Hybrid Filtering for Personalized and Health-Conscious Recipe Recommendations in UniEats [6], Implementation of Lightweight Machine Learning Models for Real-time Text Classification on Resource-

Constrained Devices [7], Review on Secure and Efficient IoT-based Healthcare System with the Integration of Machine Learning and Firewalls [8], Addressing IoT Security Challenges through Advanced Machine Learning and Encryption [9], Research Article Recommender Systems: A Comprehensive Review of Models, Approaches and Evaluation Metrics [10], Optimised Heterogeneous Handover in Mobile IPV6 Using Enhanced Predictive Fast Proxy with Media Independent Handover (MIH) Support [11], Developing A Predictive Model for Football Players' Market Value Using Machine Learning [12], Deep Learning Approaches to Autocorrelation Function and Signal-to-Noise Ratio Estimation in Noisy Images [13], Loan Default Prediction Using Machine Learning Algorithms [14], Indonesian Language Sign Detection using Mediapipe with Long Short-Term Memory (LSTM) Algorithm [15], Mapping Relational Database to Full-Text XML for Open Journal System Cross-Platform Article Distribution [16], Exploring Generative AI Recommender Systems in E-Commerce: Model, Evaluation Metric, and Comparative Review [17], User Behaviour Prediction in E-Commerce Using Logistic Regression [18], Identifying the Barriers to Digital Financial Inclusion in The Most Financially Excluded Country Using Machine Learning Algorithm [19], and Robust Lane Detection under Varying Lighting Conditions Using Adaptive Vision-Based Techniques [20].

The thematic section starts with an editorial preview:

Editorial: AI-Enhanced Computing and Digital Transformation [21]

"Leveraging AI, ML, and computing innovations to shape the future of digital ecosystems."

The papers covered are: Real-time Read and Analysis of Air Pollution Produced from Private Electrical Generators in Mosul City using LoRaWAN [22], A Scoping Review of Artificial Intelligence Research Trends in Mobile Applications [23], Impact of Data Quality Types on Computational Time in Data Source Selection Using Ant Colony Optimization [24], Lightweight String Similarity Approaches for Duplicate Detection in Academic Titles [25], Improving Code Effectiveness Through Refactoring: A Case Study [26], Societies' Funds Management System Using Blockchain [27]. Implementation of Conjugate Gradient Method for Estimating Inflation Rate in Malaysia [28], Conjugate Gradient Methods in Fitting Precipitation of Rainfall Data in Malaysia [28], and Enhancing Imbalanced Data Augmentation: A Comparative Study of GANified-SMOTE and Latent Factor Integration [30]

Beginning in January 2026, JIWE will adopt a quarterly publication schedule (January, April, July, and October), reflecting the journal's steady expansion and continued commitment to disseminating rigorous, high-impact research in informatics and web engineering. We wish to invite your ideas and suggestions about what themes may be of interest (you are encouraged to contact us to lead a theme session in our regular issue), and we encourage you to think about contributing articles to the Journal of Informatics and Web Engineering.

AUTHOR CONTRIBUTIONS

Su-Cheng Haw: Writing – Original Draft Preparation;
Hui-Ngo Goh: Writing – Review & Editing.

CONFLICT OF INTERESTS

No conflict of interests were disclosed.

ETHICS STATEMENTS

Our publication ethics follow The Committee of Publication Ethics (COPE) guideline. https://publicationethics.org/

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