Editorial Preview for June 2025 Issue

Su-Cheng Haw[1*] (Editor-in-Chief)

[1]Faculty of Computing and Informatics, Multimedia University, Persiaran Multimedia, 63100 Cyberjaya, Malaysia
corresponding author: (sucheng@mmu.edu.my; ORCiD: 0000-0002-7190-0837)

Abstract - Effective from Volume 3, JIWE has transitioned to a triannual publication release effort. Specifically, releases occur each February, June, and October. This June 2025 release contains 28 papers within the regular section that covers a broad range of application concerning Machine Learning (ML), Augmented Intelligence, Artificial Intelligence (AI), Generative AI, Data Mining (DM), Software Engineering, Sentiment Analysis, Recommender Systems, Healthcare, and other key areas in web engineering. Additionally, this edition presents a captivating collection of 6 papers curated by our Thematic Editor, Assoc. Prof. Dr. Heru Agus Santoso, under the theme "Augmented Intelligence". In his editorial, Assoc. Prof. Dr. Heru Agus Santoso highlights cutting-edge research on the integration of software engineering and business intelligence to support knowledge-driven strategies for competitive advantage. Moreover, these papers are aligned to some of the United Nations Sustainable Development Goals (SDGs), particularly SDG 3 (Good Health and Well-being) through advancements in healthcare technologies, SDG 9 (Industry, Innovation, and Infrastructure) through software and systems innovation research, and SDG 16 (Peace, Justice, and Strong Institutions) through contributions to privacy and cybersecurity research.

Keywords— *Editorial Preview, Machine Learning, Augmented Intelligence, Artificial Intelligence, Generative AI, Data Mining, Software Engineering, Recommender Systems, Sustainable Development Goals*

PREVIEW

In this issue, we bring you 21 cutting-edge articles in our regular section, along with 7 exciting contributions in the "Augmented Intelligence" thematic section, including editorial insights from our Thematic Editor. These selected articles are from various countries such as Malaysia, Thailand, Indonesia, India, United States, Pakistan, China, Saudi Arabia, Bangladesh, Japan, Taiwan, Uzbekistan, Australia, and the United Kingdom. These papers are: Improving Culinary Informatics through Meaningful Social Web Engineering [1], Diabetes Risk Prediction using Shapley Additive Explanations for Feature Engineering [2], A Fundamental Framework for Analysis of Rainfall Prediction Features Significance [3], Enhancing Citrus Plant Health through the Application of Image Processing Techniques for Disease Detection [4], Performance Evaluation on COVID-19 Prediction using Machine Learning Models [5], Image-based Detection and Classification of Poultry Diseases from Chicken Droppings in Open House Poultry Farms [6], Machine Learning Model for Assessing Human Well-being Using Brain Wave Activities [7], Cyber Security Threats of Using Generative Artificial Intelligence in Source Code Management [8], A Conceptual Approach to Predicting

Seismic Events and Flood Risks Using Convolutional Neural Networks [9], Anomaly Detection in Network Traffic for Insider Threat Identification: A Comparative Study of Unsupervised and Supervised Machine Learning Approaches [10], Analysis of Forensic Disk Imaging Tools for Data Acquisition and Preservation [11], Dynamic Job Recommendation by Profiling Undergraduates Academic Performances [12], Detecting Black Hole Attack using Support Vector Machine with XGBoosting in Mobile Ad-Hoc Networks [13], Performance Benchmarking: Pre-trained Models and Custom Convolutional Neural Networks in Deep Learning [14], The Impact of Deep Learning in Brain Tumour Analysis [15], A New Bw Index for Quantifying Scholars' Research Influence [16], Facilitating Digital Experience Sharing Among Vehicles through Utilisation of Pre-existing Communication Infrastructure [17], Exploring the Relationship Between Academic Achievement and ChatGPT Usage: A Survey of Higher Education Students in Malaysia [18], Exploring User Perceptions of Security in Mobile Banking: A Study in Malaysia [19], Generative AI-based Meal Recommender System [20], and Exploring Big Data Management Approaches and Applications: A Case Study of Real-Time Data Analytics in Air Traffic Management [21].

The thematic section starts with an editorial preview:

Editorial: Augmented Intelligence for Enabling Knowledge-Driven Decision Making [22]

"The integration of software engineering and business intelligence to support knowledge-driven strategies for competitive advantage."

The papers covered are: K-Means Clustering Optimization of Toddler Malnutrition Status Using Elbow Method [23], Classification of Smartphone Product Reviews on E-Commerce using the Recurrent Neural Network (RNN) Method [24], Sentiment Analysis of the 2024 General Election Through Twitter using Long-Short-Term Memory Algorithm [25], Sentiment Analysis and Topic Modelling on Twitter Related to Mobile Legends: Bang Bang Game Using Lexicon-Based, LDA, and SVM [26], Sentiment Analysis of the Israel-Palestine Conflict on X: Insights from the Indonesian Perspective using a Long Short-Term Memory Algorithm [27], and Aspects-Based Sentiment Analysis of Extreme Weather on Twitter Using Long Short-Term Memory [28].

Last but not least, 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.

ACKNOWLEDGEMENT

AUTHOR CONTRIBUTIONS

Su-Cheng Haw: Writing;

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/

REFERENCES

[1]   S. N. Kalid, F. M. Fahrid, and S.-B. Ho, "Improving culinary informatics through meaningful social web engineering," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 1–17, 2025. doi: 10.33093/jiwe.2025.4.2.1

[2]   C. M. Chituru, S.-B. Ho, and I. Chai, "Diabetes risk prediction using Shapley additive explanations for feature engineering," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 18–35, 2025. doi: 10.33093/jiwe.2025.4.2.2

[3]   Y. Z. Teoh and Y. L. Loo, "A fundamental framework for analysis of rainfall prediction features significance," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 36–52, 2025. doi: 10.33093/jiwe.2025.4.2.3

[4]   C. Pabitha, B. Vanathi, K. Revathi, and S. Benila, "Enhancing citrus plant health through the application of image processing techniques for disease detection," *Journal of Informatics and Web Engineering,* vol. 4, no. 2, pp. 53–63, 2025. doi: 10.33093/jiwe.2025.4.2.4

[5]   A. Abderlahman, N. Palanichamy, S.-C. Haw, and S. Gopal, "Performance evaluation on COVID-19 prediction using machine learning models," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 64–76, 2025. doi: 10.33093/jiwe.2025.4.2.5

[6]   K. Md Najmul Hasan, Z. J. Khow, V. T. Goh, S. Mansor, and Y.-F. Tan, "Image-based detection and classification of poultry diseases from chicken droppings in open house poultry farms," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 77–92, 2025. doi: 10.33093/jiwe.2025.4.2.6

[7]   S. Palaniappan, R. Logeswaran, and Y. L. Yong, "Machine learning model for assessing human well-being using brain wave activities," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 93–113, 2025.   doi: 10.33093/jiwe.2025.4.2.7   .

[8]   S. Nethala, S. Kampa, and S. R. Kosna, "Cyber security threats of using generative artificial intelligence in source code management," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 114–124, 2025.   doi: 10.33093/jiwe.2025.4.2.8   .

[9]   M. Rehan, Wan-Noorshahida Mohd-Isa, and N. Hashim, "A conceptual approach to predicting seismic events and flood risks using convolutional neural networks," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 125–144, 2025. doi: 10.33093/jiwe.2025.4.2.9

[10]   S. Palaniappan, R. Logeswaran, and S. Khanam, "Anomaly detection in network traffic for insider threat identification: A comparative study of unsupervised and supervised machine learning approaches," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 145–157, 2025. doi: 10.33093/jiwe.2025.4.2.10

[11]   M. C. E. Lim, B. C. H. Chow, L. Y. Lim, Tarini A/P Shanbagamaran, D. Y. J. Lim, N. W. Hlaing, and Ahmad Sahban Rafsanjani, "Analysis of forensic disk imaging tools for data acquisition and preservation," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 158–181, 2025. doi: 10.33093/jiwe.2025.4.2.11

[12]   B.-L. Foo, C.-Y. Ting, H.-N. Goh, A. Quek, and C.-L. Cham, "Dynamic job recommendation by profiling undergraduates academic performances," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 182–208, 2025. doi: 10.33093/jiwe.2025.4.2.12

[13]   A. Al Madani, S. Anwar Lashari, S. Salah Uddin, A. Khan, M. Nouman Atta, and D. Athiar Ramli, "Detecting black hole attack using support vector machine with XGBoosting in mobile ad-hoc networks," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 209–224, 2025. doi: 10.33093/jiwe.2025.4.2.13

[14]   S. Joseph C., S. Ganesh, S. Kannadhasan, and K. Selvipriya, "Performance benchmarking: Pre-trained models and custom convolutional neural networks in deep learning," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 225–235, 2025. doi: 10.33093/jiwe.2025.4.2.14

[15]   S. Giri, M. Kandasamy, and M. Rafaliya, "The impact of deep learning in brain tumour analysis," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 236–247, 2025. doi: 10.33093/jiwe.2025.4.2.15

[16]   B. Ahmed, L. Wang, W. Hussain, and S. Qureshi, "A new Bw index for quantifying scholars' research influence," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 248–261, 2025. doi: 10.33093/jiwe.2025.4.2.16

[17]   A. Hussain, U. Farooq, and I. Rabbi, "Facilitating digital experience sharing among vehicles through utilisation of pre-existing communication infrastructure," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 262–274, 2025. doi: 10.33093/jiwe.2025.4.2.17

[18]   M. Madiah and A. R. Abu Samah, "Exploring the relationship between academic achievement and ChatGPT usage: A survey of higher education students in Malaysia," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 275–302, 2025. doi: 10.33093/jiwe.2025.4.2.18

[19]   K. E. Lim, Y. H. Pang, S. Y. Ooi, W. X. Kow, T. X. Cheang, and M. W. Tan, "Exploring user perceptions of security in mobile banking: A study in Malaysia," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 303–314, 2025. doi: 10.33093/jiwe.2025.4.2.19

[20]   Z. B. Ter, P. Naveen, and J. J, "Generative AI-based meal recommender system," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 315–338, 2025. doi: 10.33093/jiwe.2025.4.2.20

[21]   A. Hashmi, N. Amjad, M. M. Ullah Satti, U. Hayat, and A. Mumtaz, "Exploring big data management approaches and applications: A case study of real-time data analytics in air traffic management," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 339–352, 2025. doi: 10.33093/jiwe.2025.4.2.21

[22]   H.A. Santoso, "Editorial: Augmented intelligence for enabling knowledge-driven decision making," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 353–359, 2025. doi: 10.33093/jiwe.2025.4.2.22

[23]   F. Widyawati, A. Yahya Dawod, and H. Agus Santoso, "K-means clustering optimization of toddler malnutrition status using Elbow method," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 360–374, 2025. doi: 10.33093/jiwe.2025.4.2.23

[24]   R. Anam, F. Tata Pradhana, I. Abu Yasin, and J. Zeniarja, "Classification of smartphone product reviews on e-commerce using the recurrent neural network (RNN) method," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 375–386, 2025. doi: 10.33093/jiwe.2025.4.2.24

[25]   A. Wahyu W, H. Hilmy Andana, J. Zeniarja, and A. Febriyanto, "Sentiment analysis of the 2024 general election through Twitter using long-short-term memory algorithm," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 387–400, 2025. doi: 10.33093/jiwe.2025.4.2.25

[26]   H. Muhammad, F. A. Rafrastara, K. A. Setiadi, and A. Japardi, "Sentiment analysis and topic modelling on Twitter related to *Mobile Legends: Bang Bang* game using lexicon-based, LDA, and SVM," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 401–416, 2025. doi: 10.33093/jiwe.2025.4.2.26

[27]   M. T. Noori, M. A. Rahman, A. Purnomo, and Aripin, "Sentiment analysis of the Israel-Palestine conflict on X: Insights from the Indonesian perspective using a long short-term memory algorithm," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 417–429, 2025. doi: 10.33093/jiwe.2025.4.2.27

[28]   T. Abdurahmonov, M. N. Toby Abiyyu, D. N. Khayat, and M. A. Heryanto, "Aspects-based sentiment analysis of extreme weather on Twitter using long short-term memory," *Journal of Informatics and Web Engineering*, vol. 4, no. 2, pp. 430–443, 2025. doi: 10.33093/jiwe.2025.4.2.28

BIOGRAPHIES OF AUTHORS

Su-Cheng Haw is Professor at Faculty of Computing and Informatics, Multimedia University, where she leads several funded researches on the XML databases. Her research interests include XML databases, query optimization, data modeling, semantic web, and recommender system. She can be contacted at email: sucheng@mmu.edu.my.