Journal of Computers, Mechanical and Management
Journal homepage: www.jcmm.co.in
e-ISSN: 3009-075X

Editorial Comments: JCMM Volume 3 Issue 2

Nanjangud Subbaro Mohan*[1] and Ritesh Bhat†[2]

[1]Journal of Computers, Mechanical and Management, AAN Publishing, Kangar Perlis, Malaysia 01000
[2]Department of Mechatronics Engineering, Rajalakshmi Engineering College, Thandalam, Tamil Nadu, India 602015

In Volume 3, Issue 2 of the *Journal of Computers, Mechanical and Management* (JCMM), we present a collection of research papers addressing advancements across disaster management, AI-driven education support, climate change mitigation, compiler optimizations, and educational methodologies. These studies provide both theoretical insights and practical applications in various interdisciplinary domains. The first article by Rroy and Rajkhowa, [1] titled Enhancing Secondary Education in Kamrup District Through Value-Added Courses, explores the integration of supplementary skills training in secondary school curricula to promote holistic student development. The study investigates the efficacy of value-added courses that focus on sustainability, soft skills, and industry readiness. Through a structured program combining theory and practical experience, this study highlights the positive impact on students' behavioral and professional competencies.

AI-Driven Decision Support System Innovations to Empower Higher Education Administration by Zhang and Goyal [2] discusses the transformative potential of AI-enhanced Decision Support Systems (DSS) in optimizing administrative processes within higher education. Their research shows how DSS can aid in strategic planning, enrollment management, and resource allocation, while addressing challenges such as data privacy and resistance to AI adoption. This paper underscores the importance of data-driven decisions to improve institutional efficiency. In the realm of climate action, Devesh et al. [3] provide an extensive analysis in Evaluating Climate Change Mitigation Strategies of G20 Countries. This study examines the alignment of G20 nations' policies with the Paris Agreement goals. The authors assess the strengths and weaknesses of various climate policies, offering policy recommendations to enhance carbon reduction efforts. Their work is particularly relevant given the G20's substantial contribution to global greenhouse gas emissions.

Mahajan et al. [4] present a comparative analysis in A Multi-Model Approach for Disaster-Related Tweets*, utilizing machine learning and deep learning models for disaster detection on social media. This research compares the performance of Multinomial Naïve Bayes, Passive Aggressive Classifiers, and BERT in classifying disaster-related tweets. BERT was found to achieve the highest accuracy, demonstrating the robustness of deep learning techniques for real-time disaster management applications. Deep Learning-Driven Compiler Enhancements for Efficient Matrix Multiplication by Kumar et al. [5] explores the use of deep learning to optimize compiler performance for matrix multiplication tasks. By employing techniques like loop tiling and deep learning models for compiler optimization, this study achieved significant performance improvements on various hardware platforms. The proposed methods demonstrate potential applications beyond matrix multiplication, including AI and scientific computing workloads.

Collectively, these articles illustrate JCMM's commitment to fostering innovative research that addresses complex challenges across diverse fields, offering valuable insights into sustainable education, AI applications, climate policy, disaster management, and high-performance computing.

*Editor-in-Chief: editor@jcmm.co.in
†Editor:journalmanager@jcmm.co.in

Published: 16 October 2024

DOI: 10.57159/jcmm.3.2.24177.

References

[1] Rroy, A. D., & Rajkhowa, B. (2024). Enhancing Secondary Education in Kamrup District Through Value-Added Courses. *Journal of Computers, Mechanical and Management*, *3*(2). doi:10.57159/gadl.jcmm.3.2.240128.

[2] Zhang, J., & Goyal, S. B. (2024). AI-Driven Decision Support System Innovations to Empower Higher Education Administration. *Journal of Computers, Mechanical and Management*, *3*(2). doi:10.57159/gadl.jcmm.3.2.24070.

[3] Devesh, S., Sharma, A., & Maheshwari, A. (2024). Evaluating Climate Change Mitigation Strategies of G20 Countries. *Journal of Computers, Mechanical and Management*, *3*(2). doi:10.57159/gadl.jcmm.3.2.240130.

[4] Mahajan, P., Raghuwanshi, P., Setia, H., & Randhawa, P. (2024). A Multi-Model Approach for Disaster-Related Tweets. *Journal of Computers, Mechanical and Management*, *3*(2). doi:10.57159/gadl.jcmm.3.2.240125.

[5] Kumar, R., Negi, K. C., Sharma, N. K., & Gupta, P. (2024). Deep Learning-Driven Compiler Enhancements for Efficient Matrix Multiplication. *Journal of Computers, Mechanical and Management*, *3*(2). doi:10.57159/gadl.jcmm.3.2.240122.