

Editorial Comments Volume 4 Issue 5

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Volume 4, Issue 5 of the *Journal of Computers, Mechanical and Management* (*J. Comput. Mech. Manag.*) presents a multidisciplinary collection of research contributions spanning smart tourism, industrial analytics, higher education management, and advanced manufacturing for electric mobility. The issue comprises **three original research articles** and **one review article**, reflecting the journal's emphasis on methodological rigor, applied relevance, and interdisciplinary integration across computing, engineering, and management domains.

Sharmi Banerjee [1] examined the use of generative AI travel assistants in the context of smart tourism through a student-centered empirical study. Based on structured feedback from hospitality management students, the research evaluated user perceptions of efficiency, ease of use, trust, personalization, and adoption intention. While participants generally viewed generative AI assistants as useful and time-efficient for early-stage travel planning, concerns were raised regarding the reliability of information, consistency of responses, and limited socio-emotional sensitivity. The study highlights the complementary role of generative AI in tourism services, offering practical insights for hospitality education and smart service design. **Chetan Chauhan et al.** [2] presented an original research study on optimizing predictive maintenance in Industrial Internet of Things (IIoT) networks using machine learning. The authors developed a unified predictive maintenance framework and conducted a comparative evaluation of Support Vector Machines (SVM), Decision Trees (DT), and Artificial Neural Networks (ANN) using a reproducible, simulation-based sensor dataset. Performance was assessed through standard classification metrics alongside operational indicators such as downtime and maintenance cost reduction. The results demonstrated that ANN achieved superior predictive accuracy and delivered the greatest operational benefits, underscoring the value of data-driven maintenance strategies for industrial systems. **Amlan Purkayastha and Manjinder Singh** [3] investigated cross-cultural adaptation and overall satisfaction of international students enrolled in higher education institutions in North India. Using a quantitative survey design and structural equation modelling (SEM) on responses from 411 international students, the study examined five dimensions of adaptation: psychological, sociocultural, academic, language proficiency, and cultural identity maintenance. The findings revealed that psychological adaptation, sociocultural integration, language proficiency, and cultural identity maintenance significantly predicted overall satisfaction, whereas academic adaptation was not a significant factor. The study provides important managerial implications for internationalization policies and culturally inclusive practices in higher education. Finally, **A. Ragav and Pavan Hiremath** [4] presented a mini-critical review on the squeeze casting of aluminum and magnesium alloys for electric vehicle (EV) applications. The review synthesized recent advances in pressure-assisted solidification processes, emphasizing process–microstructure–property relationships in aluminum alloys (A356, 6xxx, and 7xxx series) and magnesium alloys (AZ and AM series, including rare-earth-modified systems). EV-specific components such as motor housings, battery enclosures, and structural subframes were discussed, along with emerging trends in intelligent process optimization, sustainable alloy design, and hybrid manufacturing routes. The review identifies key challenges and future research directions for high-integrity lightweight components in next-generation EV architectures.

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Collectively, the articles in this issue demonstrate the interdisciplinary scope of *J. Comput. Mech. Manag.* and its focus on research that bridges technological innovation, management insight, and real-world application. The editorial team thanks the authors and reviewers for their contributions and continued commitment to maintaining the journal's academic standards.

References

- [1] S. Banerjee, "Evaluating the use of generative ai travel assistants in smart tourism through student feedback," *Journal of Computers, Mechanical and Management*, vol. 4, no. 5, pp. 1–7, 2025.
- [2] C. Chauhan, G. K. Saxena, C. A. Kshirsagar, R. K. Solanki, G. Kumar, and S. B. Goyal, "Optimizing predictive maintenance in industrial iot networks using machine learning: A comparative study of svm, dt, and ann," *Journal of Computers, Mechanical and Management*, vol. 4, no. 5, pp. 8–16, 2025.
- [3] A. Purkayastha and M. Singh, "Cross-cultural adaptation and overall satisfaction of international students in north indian higher education institutions," *Journal of Computers, Mechanical and Management*, vol. 4, no. 5, pp. 17–27, 2025.
- [4] A. Ragav and P. Hiremath, "Squeeze casting of aluminum and magnesium alloys for electric vehicles," *Journal of Computers, Mechanical and Management*, vol. 4, no. 5, pp. 28–36, 2025.