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Editorial Introduction to Issue 44 of CSIMQ: The Societal Dimension of Complex Systems

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Complex Systems Informatics and Modeling Quarterly (CSIMQ) is an Open Access journal that publishes peer-reviewed original research articles reporting on studies of the structure, algorithms, behavior, and interactions of natural, social, socio-technical, and artificial systems that store, process, access, and communicate information. It concerns data, information, and knowledge fundamentals, models, and management from the points of view of their discovery, engineering, and application.

This issue of CSIMQ brings together a selection of five articles chosen from a total of twenty submissions, each rigorously evaluated according to the following criteria: usefulness, scientific contribution, practical relevance, clarity, and technical quality.

We wish to express our deepest appreciation to the reviewers whose careful assessments and constructive feedback made it possible to identify and select the most outstanding contributions featured in this issue.

We would also like to extend our sincere gratitude to the CSIMQ team for the trust placed in us in assigning the editorial responsibility for this thematic edition, and for the valuable support provided throughout the entire editorial process.

The articles included in this issue share a strong societal orientation, addressing challenges and innovations across diverse domains such as healthcare, citizen services and protection, knowledge management, and sustainable development.

The first article, “Deep Inception Based Hybrid Machine Learning Framework for Binary Classification of Brain Tumor MRI Scans”, proposes a clinical decision-support approach that effectively balances predictive performance and explainability.

The second article, “User-Centric and Community-Based Microservices Placement for Energy Efficiency”, presents a scalable and sustainable strategy for optimizing microservice deployment.

The third article, “Hierarchical Fusion of 3D CNNs with Confidence Awareness for Violence Recognition in Videos”, develops a robust and context-aware framework for threat detection within smart city video surveillance systems.

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The fourth article, “Unsupervised Approach for Specialized Vocabulary Creation and Enrichment: A Case Study in the Multidisciplinary Building Sector”, tackles the complex issue of organizing and enriching specialized knowledge repositories.

Finally, the fifth article, “The Role of Green Innovation in Strengthening CSR to Enhance Sustainable Performance in the Era of the Global Climate Crisis”, investigates the mediating function of green innovation in reinforcing the relationship between corporate social responsibility initiatives and sustainable organizational performance.

Collectively, these contributions exemplify the intersection of scientific rigor, technological innovation, and societal relevance, offering valuable insights for both researchers and practitioners.