Editorial

We present the first issue of the seventeenth volume of the **Journal of Intelligent Computing**, which contains the research outlined below.

In the opening paper, "**Data Mining Algorithms and Models for Distance Education Management,**" the author studied the application of data mining techniques to enhance the management and evaluation of distance education. It addresses the challenges of online learning, remarkably low supervision, poor instructional quality, and high dropout rates and proposes Educational Data Mining (EDM) as a solution. The results proved that the optimized C4.5-based model improves both accuracy and processing speed compared to traditional methods. The study demonstrated that integrating data mining into distance education facilitates proactive, personalised support and more effective administrative oversight.

The rapid growth of mobile communication services ensured the profitability and sustainability of telecommunications operators. The paper, "**Data Mining–Driven Customer Retention in Mobile Communication Systems**," offered a comprehensive, systematically revised study of the application of data mining techniques to customer value analysis, segmentation, and retention in the mobile communications sector. The results confirmed a strong association among customer satisfaction, loyalty, and churn risk, underscoring the importance of identifying high-value yet churn-prone customer segments.

In the last paper, "**Music, Artificial Intelligence, and Deep Learning: A Review of Concepts and Genre Classification Approaches,"** the authors presented AI applications in music including genre classification, recommendation, melody extraction, therapy, and generation and traces the evolution from traditional machine learning (e.g., kNN, SVM) to deep learning models (e.g.,CNNs, LSTMs). The authors conclude that AI-intensive learning enhances rather than replaces human creativity, and call for future work on music-aware networks, attention mechanisms, and larger, diverse datasets.

We hope that the published research in this issue marks a significant milestone in intelligent computing.

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