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Special Issue Reprint

Advances in Intelligent Data Analysis and Its Applications, 3rd Edition

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This Reprint highlights the growing importance of intelligent data analysis in addressing the challenges of the big data era. As data become increasingly complex, high-dimensional, heterogeneous, and dynamic, intelligent analysis is essential for extracting actionable knowledge and supporting prediction, reasoning, and decision-making across data-intensive domains. The Reprint presents recent advances in intelligent data analysis and their applications. Topics include knowledge graph embedding, deep temporal modeling, multimodal learning, explainable artificial intelligence, granular computing, multi-sensor fusion, group consensus optimization, and sequence prediction. Together, these studies reflect both methodological progress and the growing practical impact of the field. The collected contributions span applications in environmental monitoring, autonomous robotics, e-commerce recommendation, legal judgment analysis, educational text processing, trajectory mining, and cultural multimedia interpretation, with broader relevance to transportation, healthcare, finance, public safety, and social governance. By consolidating recent developments and real-world applications, this Reprint aims to provide a useful reference for researchers and practitioners and to support future data-driven innovation.

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