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Social Media Content and Communication Strategies under "Infodemic" -- Location Recommendations Based on Multi-view Learning and Attention-enhanced Graph Networks -- Driving Style Classification and Dynamic Recognition Considering Traffic State -- Who Connects Wikipedia? A Deep Analysis of Node Roles and Connection Patterns in Wikilink Network -- Digital infrastructure and the Intelligent Society -- Social Behavior-Aware Driving Intention Detection using Spatio-Temporal Attention Network -- Intelligent Government Decision-Making: A Multidimensional Policy Text Visualization Analysis System -- Heuristic Approach to Curate Disease Taxonomy Beyond Nosology-based Standards -- Root Cause Localization Method of Base Station Cells with Poor Quality using AI+SHAP -- Digital Society and Public Security Does Internet Use Promote the Garbage Classification Behavior of Farmers? -- Empirical Evidence from Rural China -- Traffic State Propagation Prediction based on SAE-LSTM-SAD under the SCATS -- Citation Prediction via Influence Representation using Temporal Graphs -- Enhancing Time Series Anomaly Detection with Graph Learning Techniques -- Image Dehazing based on CycleGAN with an Enhanced Generator and a Multiscale Discriminator -- Artificial Intelligence and Cognitive Science -- Accurate and Rapid Localization of Tea Bud Leaf Picking Point based on YOLOv8 -- Compressor Fault Diagnosis Based on Graph Attention Network -- Conductance-Threshold Dual Adaptive Spiking Neural Networks for Speech Recognition -- Mitigating Backdoor Attacks Using Prediction of Model Update Trends -- The Motor Fault Diagnosis Based On Current Signal With Graph Attention Network -- Internet Intelligent Algorithm Governance -- NILSIC-BERT4Rec: Sequential Recommendation with Non-Invasive and Interest Capturing Self-Attention Mechanism -- Rethinking the Robustness of Graph Neural Networks -- MDC: An Interpretable GNNs Method Based on Node Motif Degree and Graph Diffusion Convolution -- Missing data imputation for traffic flow data using SAE-GAN-SAD -- Scaffold Data Augmentation for Molecular Property Prediction. .

| Sommario/riassunto | This book constitutes refereed proceedings of the 8th China National Conference on Big Data and Social Computing, BDSC 2023, held in Urumqi, China, from July 15–17, 2023. The 23 full papers and 3 short papers presented in this volume were carefully reviewed and selected from a total of 141 submissions. The papers in the volume are organized according to the following topical headings: Digital Technology and Sustainable Development; Social Network and Group Behavior; Digital infrastructure and the Intelligent Society; Digital Society and Public Security; Artificial Intelligence and Cognitive Science; and Internet Intelligent Algorithm Governance. |