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Based on Big Data Mining -- Design of Urban Air Quality Monitoring System Based on Big Data and UAV -- Design of Intelligent Monitoring System for Air Visibility Data Based on UAV -- Design of Short-term Network Congestion Active Control System Based on Artificial Intelligence -- Decentralized Control Method for UAV Arriving Simultaneously Based on Large Data Analysis -- Hyperspectral recognition and early warning of rice diseases and insect pests based on convolution neural network -- Industrialized big data processing -- Research on abnormal data detection method of power measurement automation system -- Research on Data Optimization Method of Software Knowledge Base Operation and Maintenance Based on Cloud Computing -- Dynamic data mining method of cold chain logistics in drug distribution under the background of cloud computing -- Distributed Data Collaborative Fusion Method for Industry-University-Research Cooperation Innovation System Based on Machine Learning -- Research on automatic Defense Network active attack data location and early warning method -- Efficient retrieval method of malicious information in multimedia big data network based on human-computer interaction.

Sommario/riassunto

This two-volume set constitutes the post-conference proceedings of the 4th EAI International Conference on Advanced Hybrid Information Processing, ADHIP 2020, held in Binzhou, China, in September 2020. Due to COVID-19 the conference was held virtually. The 89 papers presented were selected from 190 submissions and focus on theory and application of hybrid information processing technology for smarter and more effective research and application. The theme of ADHIP 2020 was “Industrial applications of aspects with big data”. The papers are named in topical sections as follows: Industrial application of multi-modal information processing; Industrialized big data processing; Industrial automation and intelligent control; Visual information processing.