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Research on the Design of a Standard Unit Cabinet for Custom Furniture of the Cabinet Type -- An Improved War Strategy Optimization Algorithm for Big Data Analytics -- Research on Path Planning of Mobile Robots Based on Dyna-RQ -- Small Target Helmet Wearing Detection Algorithm based on Improved YOLO V5 -- Research on Dance Evaluation Technology based on Human Posture Recognition -- Multiple-channel Weight-based CNN Fault Diagnosis Method -- Big Data Management and Applications -- Design and Implementation of Key-Value Database for Ship Virtual Test Platform Based on Distributed System -- Big Data Mining and Knowledge Management -- Research on Multi-modal Time Series Data Prediction Method Based on Dualstage Attention Mechanism -- Prediction of Time Series Data with Low Latitude Features -- Lightweight and Efficient Attention-based Superresolution Generative Adversarial Networks -- The Multisource Time Series Data Granularity Conversion Method -- Outlier Detection Model Based on Autoencoder and Data Augmentation for High-Dimensional Sparse Data -- Dimension Reduction Based on Sampling -- Complex Time Series Analysis Based on Conditional Random Fields -- Feature Extraction of Time Series Data Based on CNNCBAM -- Optimization of a Network Topology Generation Algorithm based on Spatial Information Network -- Data Visualization -- MBTIviz: A Visualization System for Research on Psycho-demographics and Personality -- Data-driven Security -- Distributed Implementation of SM4 Block Cipher Algorithm based on SPDZ Secure Multi-party Computation Protocol -- DP-ASSGD: Differential Privacy Protection Based on Stochastic Gradient Descent Optimization -- Study on Tourism Workers ' Intercultural Communication Competence -- A Novel Federated Learning with Bidirectional Adaptive Differential Privacy -- Chaos-Based Construction of LWEs in Lattice-Based Cryptosystems -- Security Compressed Sensing Image Encryption Algorithm Based on Elliptic Curve -- Infrastructure for Data Science -- Two-dimensional Code Transmission System Based on Side Channel Feedback -- An Updatable and Revocable Decentralized Identity Management Scheme based on Blockchain -- Cloud-Edge Intelligent Collaborative Computing Model based on Transfer Learning in IoT -- Design and Validation of a Hardware-in-the-loop based Automated Driving Simulation Test Platform -- Machine Learning for Data Science -- Improving Transferability Reversible Adversarial Examples based on Flipping Transformation -- Rolling Iterative Prediction for Correlated Multivariate Time Series -- Multimedia Data Management and Analysis -- Video Popularity Prediction Based on Knowledge Graph and LSTM Network -- Design and Implementation of Speech Generation and Demonstration Research Based on Deep Learning -- Testing and Improvement of OCR Recognition Technology in Export-Oriented Chinese Dictionary APP.

Sommario/riassunto

This two-volume set (CCIS 1879 and 1880) constitutes the refereed proceedings of the 9th International Conference of Pioneering Computer Scientists, Engineers and Educators, ICPCSEE 2023 held in Harbin, China, during September 22–24, 2023. The 52 full papers and 14 short papers presented in these two volumes were carefully reviewed and selected from 244 submissions. The papers are organized in the following topical sections: Part I: Applications of Data Science, Big Data Management and Applications, Big Data Mining and Knowledge Management, Data Visualization, Data-driven Security, Infrastructure for Data Science, Machine Learning for Data Science and Multimedia Data Management and Analysis. Part II: Data-driven Healthcare, Data-driven Smart City/Planet, Social Media and Recommendation Systems and Education using big data, intelligent

computing or data mining, etc.