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| 1. Record Nr.           | UNINA9910983484503321   |
| Autore                  | Atiquzzaman Mohammed  |
| Titolo                  | Proceedings of the 5th International Conference on Big Data Analytics for Cyber-Physical System in Smart City—Volume 1 : BDCPS 2023, December 28–29, Fuyang, China // edited by Mohammed Atiquzzaman, Neil Yen, Zheng Xu  |
| Pubbl/distr/stampa      | Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025  |
| ISBN                    | 9789819602087<br>9819602084   |
| Edizione                | [1st ed. 2025.]   |
| Descrizione fisica      | 1 online resource (1044 pages)  |
| Collana                 | Lecture Notes on Data Engineering and Communications Technologies, , 2367-4520 ; ; 234  |
| Altri autori (Persone)  | YenNeil<br>XuZheng  |
| Disciplina              | 006.3   |
| Soggetti                | Computational intelligence<br>Quantitative research<br>Big data<br>Computational Intelligence<br>Data Analysis and Big Data<br>Big Data   |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
| Nota di contenuto       | TOPSIS-based Integrated Energy Service Station Siting Research and Application -- Design and Application of Multi-objective Optimization Algorithm Based on Neural Network and Genetic Algorithm -- Differential Privacy Adversarial Learning with Diffusion Model for the Generation of Privacy-Protected Text Representations -- Application of Mathematical Algorithms in Big Data Analysis Techniques -- Development Status and Prospect Prediction of Robots for Live Work in Distribution Network -- Distributed Computing Methods Based on Data Weaving -- Financial Forecasting and Decision-Making Models Based on Intelligent Algorithms and Big Data -- The Integration of Artificial Intelligence and Computer Vision Technologies in Virtual Reality and Augmented Reality Applications -- Comparative Study of Machine Learning Using Word2vec Method -- Research on Mechatronics |

Modeling and Co-simulation Method Based on Joint Inventory Management -- Research on Image Processing Algorithm of Packaging Design Based on Machine Vision -- Optimization Design of Blockchain Technology for Secure Protection of Integrated Media PGC on Mobile Terminals -- Application of Computer Artificial Intelligence in Online Education Platforms on the Internet -- A Study on the Application of Photovoltaic Building Integration in Logistics Center Warehouses -- Multi-Regional Environmental and Economic Scheduling Of Power System Based On Particle Swarm Algorithm -- Research on Smart Transportation Data Security Management Based On Blockchain -- Design Personalized Nutrition Supplement Recommendation System using Machine Learning Technology -- Big Data Natural Language Processing Algorithm to Implement Green Brand Reputation Management System -- Research on the Application of Scintillation Liquid Treatment Technology Based on Artificial Intelligence in Waste Water Treatment -- The Implementation of Computer Analysis Algorithm in BPA Transient Program -- Intelligent Network Security Protection Technology Based on Big Data and Machine Learning -- Optimization of Intelligent Manufacturing Systems Based on Intelligent Control Algorithms and Big Data Analysis -- The Design of Virtual 3D Interactive System for Multifunctional Remote Office All-In-One Machine -- Research on Water Ecological Governance Based on Visual Comprehensive Supervision Platform -- Construction of Standard Cost System for Operations and ERP Management System Based on Data Acquisition Technology -- Considering Power Factors in Macroeconomic Forecasting Based on the Gated Recurrent Unit (GRU) Model -- Hierarchical Cooperative Scheduling of RMG, Quay Crane and AGV -- Intelligent Translation Recognition and Error Correction System Based On Machine Intelligence and Data Mining Technology -- Application of Random Forest Algorithm in Financial Intelligence Analysis -- Intelligent Scheduling and Path Planning of Internet of Things Technology in Logistics Transportation -- Quantum Computing Algorithms and Real-world Applications -- Construction of Blended English Intelligent Classroom Based on Virtual Information Platform -- Power Load Forecasting and Intelligent Scheduling on Big Data -- Credit Risk Assessment of Commercial Bank Customers Based on Machine Learning -- Design of Java Programming One-time Pad Encryption System Based on DES Algorithm -- Technology of Intelligent Detection and Recognition for Wireless Communication Signals -- Research and Design of a Financial Intelligent Risk Control Platform Based on Big Data Analysis and Deep Machine Learning -- Building of Construction Project Cost Prediction Model Based on BP Algorithm under the Background of Big Data -- A Study on Determining the Mathematical Model of Compressor Energy Consumption Based on Least Squares Fitting of Compressor Performance Curves -- Shipping Intelligent Management Decision System Based on Bayesian Network Model -- Food Quality Traceability System for Internet of Things under Big Data Algorithm -- Exploration on the Effectiveness of Industrial Investment Efficiency under Support Vector Machine Model -- Research on Intelligent Recommendation Algorithms for Online Learning Resources Based on Recommender Systems -- Interactive Genetic Algorithm In Indoor Layout Automation Design System -- Distribution Network Fault Diagnosis and Auxiliary Decision-making in View of Intelligent Perception and Big Data -- Collaborative Mechanism Between Smart Blockchain and Supply Chain Economic and Trade Operations -- Parametric Design System for Ecological Landscape Spatial Structure under Interactive Genetic Algorithm -- Delaunay Algorithm in Quality and Safety Monitoring of Geological Exploration

and Drilling Engineering -- Intrusion Detection Technology Research Based On Machine Learning and Big Data Technology -- Automotive Information Security Assessment and Risk Management Methods -- Application of Intelligent Algorithm in Computer Programming Optimization -- Reliability Study of Active Distribution Microgrids with Distributed Energy Resources -- Research on Real-Time Motion Control Strategy of Robotic Arm Based on Deep Learning -- Research on Landscape Image Optimization System Based on Machine Vision Technology -- Research on Digital Preservation of Architectural Decoration Patterns Based on Virtual Reality Technology -- Research on Imbalanced Datasets Classification based on Neural Network and Oversampling Methods -- Research on the Application of Computer Software CAD-3D in Interior Design -- Application of Data Mining Technology Based on Support Vector Machine in Information Security -- Design and Implementation of Web-based Mechanical Fault Repair System -- Public Service Management Based on Blockchain and Multi-Information Collaborative System -- Analysis of Data Security Management Based On Neural Network and Text Mining Under the Background of Big Data -- Reliability Optimization of Economic Information System Based on Genetic Algorithm -- A Data Analysis Algorithm Combining Topic Analysis Model With T-Test -- Visualization of Binary Classification Data and Algorithm for Remote Dynamic Loading of Data -- Fault Diagnosis and Intelligent Prediction Based on Deep Learning in Power System -- Joint scheduling of eMBB and URLLC traffic in Space-Air-Ground Integrated Networks -- Research on the Design Auxiliary System of Museum Exhibition Space Based On Artificial Intelligence -- Construction of Cost Evaluation Model Based on Fuzzy Comprehensive Evaluation -- Optimized Application of ADS-B Technology in Aircraft Collision Avoidance System -- Key Technologies for Disaster Prevention and Mitigation Based on Intelligent Monitoring of Building Structures -- Application Case of New Material 3T Integrated Management Technology -- Application of PROMETHEE-II Method in Location Selection of Photovoltaic Power Station -- Application of Big Data Technology in Mathematical Modeling Based on Neural Network Algorithm -- Research on Personalized Recommendation Algorithm of Learning Resources Based on Knowledge Graph -- Optimization of Agricultural Product Logistics Vehicle Scheduling Path Based on Ant Colony Algorithm -- Enterprise Technology Innovation Evaluation System Based on Data Envelopment Analysis -- Interactive Electronic Technical Manual System Based on Computer Aided Technology -- Research on Application of Frequency Conversion Debugging Technology in Electric Drive System -- Application and Development of Intelligent System in Mechanical Design and Optimization -- Research on Low-resolution Face Image Recognition based on Convolutional Neural Network.

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### Sommario/riassunto

This book gathers a selection of peer-reviewed papers presented at the 5th Big Data Analytics for Cyber-Physical System in Smart City (BDCPS 2023) conference, held in Fuyang, China, on December 28–29. The contributions, prepared by an international team of scientists and engineers, cover the latest advances and challenges made in the field of big data analytics methods and approaches for the data-driven co-design of communication, computing, and control for smart cities. Given its scope, it offers a valuable resource for all researchers and professionals interested in big data, smart cities, and cyber-physical systems.

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