Yuan Tian · Tinghuai Ma ·
Muhammad Khurram Khan ·
Victor S. Sheng · Zhaoqing Pan (Eds.)

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Big Data and Security

Third International Conference, ICBDS 2021
Shenzhen, China, November 26–28, 2021
Proceedings

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Preface

This volume contains the papers from the Third International Conference on Big Data and Security (ICBDS 2021). The event was held at the Shenzhen Institute of Advanced Technology, Chinese Academy of Sciences, and was organized by the Nanjing Institute of Technology, the Shenzhen Institute of Advanced Technology, King Saud University, the Jiangsu Computer Society, and the IEEE Broadcast Technology Society.

The International Conference on Big Data and Security (ICBDS) brings experts and researchers together from all over the world to discuss the current status and potential ways to address security and privacy regarding the use of big data systems. Big data systems are complex and heterogeneous; due to their extraordinary scale and the integration of different technologies, new security and privacy issues are introduced and must be properly addressed. The ongoing digitalization of the business world is putting companies and users at risk of cyber-attacks more than ever before. Big data analysis has the potential to offer protection against these attacks. Participation in conference workshops on specific topics is expected to achieve progress through global networking and the transfer and exchange of ideas.

The papers submitted to ICBDS 2021 came from researchers who work in universities and research institutions, giving us the opportunity to achieve a good level of understanding of the mutual needs, requirements, and technical means available in this field of research. The topics included in the second edition of this event included big data, security in blockchain, IoT security, security in cloud and fog computing, artificial intelligence/machine learning security, cybersecurity, and privacy. We received 221 submissions and accepted 59 papers. All the accepted papers were peer reviewed by three qualified reviewers chosen from our Technical Program Committee (TPC) based on their qualifications and experience.

The proceedings editors wish to thank the dedicated TPC members and all the other reviewers for their efforts and contributions. We also thank Springer for their trust and for publishing the proceedings of ICBDS 2021.

January 2022

Tinghuai Ma
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Contents

Cybersecurity and Privacy

Privacy Preserving Facial Image Processing Method Using Variational Autoencoder 3
Yuying Qiu, Zhiyi Niu, Qikun Tian, and Biao Song

A Survey on Privacy-Preserving Deep Learning with Differential Privacy 18
Yu Zhang, Ying Cai, Meng Zhang, Xin Li, and Yanfang Fan

Research on Security Protection Model of Power Big Data 31
Lan Zhang, Xianjun Wang, and Sheng Ye

Research on Identification Method of Sensitive Data in Power System 45
Pengfei Yu, Danni Wang, and Shijun Zhang

Vehicle Road Privacy Recommendation System Equipped with Markov Chain 58
Xiangru Zhu, Yanfeng Shi, and Yuan Tian

Research on Power Security Early Warning System Based on Improved K-means Algorithm 73
XinLong Wang, ChunXiao Song, and MingDai Yu

Research on Data Privacy Protection in Power Industry Control System 90
Xia Shangguan, Rongyan Cai, and Sheng Ye

Recent Advances in Smart Meter: Data Analysis, Privacy Preservation and Applications 105
Ruixuan Dong, Shuyang Hao, Tian Hao Yang, Zhichao Tang, Yan Yan, and Jianhua Chen

Image Watermark Combining with Discrete Wavelet Transform and Singular Value Decomposition 115
Juncai Yao and Jing Shen

Research on Outsourced PSI Protocols for Privacy Preserving Data Sharing 125
Yanfeng Shi, Wenxiu Yang, Wanni Xu, and Qiong Li

A Review on Traceable Attribute-Based Encryption 137
Yanfeng Shi, Wenhui Ni, Wanni Xu, Wenxiu Yang, Qiong Li, and Zekai Xue

Trustworthy Collaborative Trajectory Privacy Scheme for Continuous LBS 149
Miada Murad, Sarah Altwaijri, Johara Khabti, Ibtehal Baazeem, and Yuan Tian

The Application of Beidou and Ultra-Broadband Positioning Technology in the Power Security Protection System 171
Yu-qing Yang, Wei-wei Miao, and Zeng Zeng

Research on Navigation Algorithm Model of Virtual Tourism System Based on GIS 183
Jiayuan Wang, Shengbin Yang, and Chong Cheng

Financial Risk Analysis and Early Warning Research Based on Crowd Search Algorithm 194
Bian Tingting

Design Guidance for Lightweight Object Detection Models 203
Rui Wang, Xueli Wang, Yunfang Chen, and Wei Zhang

Application of Digital Twin in the Security Protection of the Internet of Things in Power System 218
Yu Chen, Ziqian Zhang, and Ning Tang

Research on Blockchain Security Risk Analysis and Coping Strategies 230
Guohong Yu, Chenggong Ni, and Tianquan Liu

Towards Convergence of Blockchain and Self-sovereign Identity for Privacy-Preserving Secure Federated Learning 243
Rakib Ul Haque, A. S. M. Touhidul Hasan, Apubra Daria, Qiang Qu, and Qingshan Jiang

Research on Load Forecasting Method Considering Data Feature Analysis Based on Bi-LSTM Network 256
Zhihua Ding, Yijie Wu, Peng Jia, Jiaxing Li, and Sijia Zhou

Research on Cloud Computing Security Technology of Power System 269
Hongzhang Xiong, Jie Cheng, YanJin Wang, Xiaokun Yang, and Kuo Wang

Research on Optimization of Fuzzing Test of Unknown Protocol Based on Message Type: Black Box Testing 284
WeiQing Fang, Peng Li, YuJie Zhang, and Yang Chen

Risk Prediction of Diabetic Readmission Based on Cost Sensitive Convolutional Neural Network 299
Bin Fan, Zuoling Xie, Haitao Cheng, and Peng Li

A Survey on Content-Based Encrypted Image Retrieval in Cloud Computing 312
Meng Zhang, Ying Cai, Yu Zhang, Xin Li, and Yanfang Fan

Big Data

Methodology-Driven Characteristics of Scientific Research Collaboration Networks in the Field of Economic Management: Mining and Analysis Based on Big Data 329
Hao Xu, Shihui Chen, Mengxue Yi, Ke Feng, Xi Ding, Yilin Liu, and Yiyang Chen

Smart Hotel Management Under the Background of Big Data 348
Junyi Xu

Power Grid Missing Data Filling Method Based on Historical Data Mining Assisted Multi-dimensional Scenario Analysis 360
Guangyu Chen, Zhengyang Zhu, Li Yang, Gang Lin, Yujiao Yun, and Peng Jiang

The Training Mode of Experimental Talents in Colleges and Universities Based on Big Data 372
Yunhai Zhao

Research on Anomaly Detection of Smart Meter Based on Big Data Mining ... 380
Haowei Tang, Jing Shen, Congying Yao, and Juncai Yao

Using Big Data Technology to Analyze the Application of Calligraphy Art in Modern Digital Media 388
Jianlong Jiang and Kun Huang

Research on Resource Allocation of Multi-beam Satellite Based on Big Data Under Rain Fading 397
Zhang Ming

Blockchain and Internet of Things

A Cryptocurrency Price Prediction Model Based on Twitter Sentiment Indicators 411
Zi Ye, Weichen Liu, Qiang Qu, Qingshan Jiang, and Yi Pan

A Survey on Task Scheduling Schemes in Mobile Edge Computing 426
Mengxin Jia, Yanfang Fan, and Ying Cai

Research on Dynamic Simulation Modeling of Chemical Industry Based on Edge Algorithm 440
Liu Pengpeng

A Model of Resource Scheduling of Ideological and Political Education in Colleges and Universities Based on Cloud Computing 452
Ji Rui

Incomplete Feature Recovery of Cloud Network System Based on Artificial Intelligence 461
Yuxiang Qiu, Lan Gan, E. Longhui, Shunwang Xu, Peng Wei, and Yan Cai

A Survey on Service Migration Strategies for Vehicular Edge Computing 473
Zhiwen Song, Yanfang Fan, and Ying Cai

Research on the Evaluation Method of Construction Measurement Uncertainty Based on Edge Algorithm 488
Huali Wang

Research on Civil Aviation Economic Pricing Based on Equilibrium Game 496
Yulin Li

Spinal Posture Recognition Device Using Cloud Storage and BP Neural Network Approach Based on Surface Electromyographic Signal 507
Yao Wu, Yong Lu, Chengcheng Ma, Xiuyang Zhang, Ziyang Pan, Xiang Yu, and Yameng Zhang

Anomaly Detection of Cloud Network Resource State Based on Deep Learning 518
Junjie Shi, Fenggang Lai, Weiliang Li, Huaiyu Wang, Xiaoliang Zhang, and Yan Li

Research on Defect Intelligent Identification System Based on Cloud-Fog-Edge Cooperation for UAV Electric Power Inspection 527
Wenye Liu, Haiming Xu, Kegui Guo, Nianguo Liu, Xuming Tang, Jianghui Meng, Cifu Zhan, Luyao Li, and Pin Lu

Optimization on Service Function Chain Deployment for Cloud Network Collaborative Operation Platform 545
Xiaoliang Zhang, Yan Li, Weiliang Li, Jiaqi Duan, Shunming Lv, and Mei Yan

Artificial Intelligence/Machine Learning Security

Using Multi-criteria Evaluation of E-learning System: A Methodology Based on Learning Outcomes 563
Randa Aljably and Salah Hammami

Application of Machine Learning Algorithm in Art Field – Taking Oil Painting as an Example 575
Kun Huang and Jianlong Jiang

Based on Data Mining New Energy Medium - and Long - Term Electricity Market Trading Power Decomposition Strategy 584
Shuwei Zhang, Xinghua Yang, Benran Hu, Yongjia Wang, and Huiqi Zhang

Research and Judgment of Enterprise Energy Consumption Anomaly Based on Massive Data Clustering Algorithm 597
Zhonglong Wang, Jian Geng, Qing Wang, Han Zhang, Weidong Meng, and Luyan Li

State Machine Inference Method of Unknown Binary Protocol Based on Recurrent Neural Network 607
Yang Chen, Peng Li, Yujie Zhang, and Weiqing Fang

Data-Driven Distribution Network Energy-Saving Planning Based on Cluster Division and High-Penetration Renewable Energy Access 617
Ke Hua, Zhichao Wang, Baoyin Wu, and Maosheng Fu

Detecting Hybrid Anomalies Using an Unsupervised Approach in Online Social Networks 630
Randa Aljably, Mznah Al-Rodhaan, and Yuan Tian

Community Detection Based on Deep Network Embedding with Dual Self-supervised Training 643
Yunfang Chen, Haotian Mao, Li Wang, and Wei Zhang

A Supervised Learning Model for Detecting Ponzi Contracts in Ethereum Blockchain 657
Ali Aljofey, Qingshan Jiang, and Qiang Qu

Research on Civil Aviation Economic Security Situation Assessment Model Based on Ant Colony Algorithm 673
Yulin Li

Research on Active Sampling with Self-supervised Model 683
Shi-Fa Luo

Research on Intelligent Identification Method of Power Grid Missing Data Based on Improved Generation Countermeasure Network with Multi-dimensional Feature Analysis 696
Yang Lv, Shiming Sun, Qi Zhao, Jiang Tian, and Chun Li

Civil Aviation Etiquette Robot System Based on Decision Tree Model 707
JinRui He

Chemical Fault Diagnosis Modeling Optimization Based on Machine Learning 716
Han Zong

Research and Design of Agrometeorological Disaster Monitoring and Early Warning and Intelligent Service System Based on Data Mining 726
Wenbo Yang and Quan Xia

A Parameter Identification Method of Wind Turbine System Based on Fuzzy Cuckoo Search Algorithm 738
Jing He, Songtao Zhang, Yangfei Zhang, Yong Zheng, Yuqin Hong, and Changyi Huang

Author Index 749