1. Record Nr. UNINA9910502611003321

Titolo	Application of Big Data, Blockchain, and Internet of Things for Education Informatization : First EAI International Conference, BigIoT-EDU 2021, Virtual Event, August 1–3, 2021, Proceedings, Part II / / edited by Mian Ahmad Jan, Fazlullah Khan
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2021
ISBN	3-030-87903-8
Edizione	[1st ed. 2021.]
Descrizione fisica	1 online resource (695 pages)
Collana	Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering, , 1867-822X ; ; 392
Disciplina	370.285
Soggetti	Application software Artificial intelligence Computer networks Data mining Data structures (Computer science) Information theory Computer and Information Systems Applications Artificial Intelligence Computer Communication Networks Data Mining and Knowledge Discovery Data Structures and Information Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Preface -- Organization -- Contents - Part II -- Contents - Part I -- Applications of Big Data and Cloud Computing -- Research on the Development Direction of Computer Software Testing Methods in the Era of Big Data -- 1 Introduction -- 2 Challenges of Software Testing in the Era of Big Data -- 2.1 Oracle Problems Become More and More Prominent -- 2.2 The Traditional Test Platform Cannot Meet the Needs of Big Data Processing -- 3 Development of Software Testing in the Era of Big Data -- 3.1 Adjust and Optimize Oracle Memory Area -- 3.2 Regularly Defragment the Database -- 3.3 Improve the Accuracy

of Software Test Data -- 4 Artificial Intelligence -- 5 Computer Network Technology -- 6 Advantages of Artificial Intelligence in Computer Network Technology in the Era of Big Data -- 7 The Specific Application of Artificial Intelligence in Computer Network Technology in the Era of Big Data -- 8 Conclusions -- References -- A Study on the Construction of Behavioral Medicine ESP Corpus Resources in the Context of Big Data -- 1 Introduction -- 2 Investigation on the Current Situation of ESP Teaching in Medical Vocational Colleges -- 3 Analysis of ESP Teaching Problems and Causes in Medical Vocational Colleges -- 3.1 The Curriculum is not Scientific Enough -- 3.2 Attribution of ESP Teaching Problems -- 4 Strategies of ESP Teaching Reform in Medical Vocational Colleges -- 4.1 Overall Promotion and Local Implementation -- 4.2 Training Design -- 4.3 Training Classification -- 5 Conclusion -- References -- A Study on the Measurement of POI Data in Shandong Urban Governance Under Big Data -- 1 Meta Governance Concept -- 2 Quantitative Identification of Urban Functional Areas Based on POI Data -- 3 Basic Conception of Public Participation in Urban Planning from the Perspective of Meta Governance.
3.1 Guiding Ideology of Public Participation in Urban Planning System -- 3.2 The Principle of Constructing the System of Public Participation in Urban Planning -- 4 Countermeasures of Public Participation in Urban Planning from the Perspective of Meta Governance -- 4.1 Improve the System of Public Participation in Urban and Rural Planning -- 4.2 Improve Urban Planning and Other Related Systems -- 5 Conclusion and Prospect -- References -- A Study on the Sustainable Participation Behavior of MOOC Learning Educators in the Context of Big Data -- 1 Introduction -- 2 Introduction -- 3 Definition of Core Concepts -- 3.1 Participate in -- 3.2 Types of Learner Participation -- 4 Research Results and Conclusions -- 5 Conclusion -- References -- Analysis and Design of Human Resource Management Model of Retail Enterprises Under the Background of Big Data -- 1 Introduction -- 2 System Analysis -- 2.1 Functional Requirements of the System -- 2.2 Data Requirements of the System -- 2.3 Database and Programming Selection of the System -- 3 Design and Implementation of the System -- 3.1 Overall Structure of the System -- 3.2 Functional Module Structure of the System -- 4 Key Technologies of the System -- 5 System Maintenance and Safety -- 5.1 User Management Mark and Identification -- 5.2 Access Control -- 6 Conclusion -- References -- Analysis and Research on Application of Data Mining Algorithm Technology in E-Commerce Platform -- 1 Introduction -- 2 Overview of Data Mining Technology -- 3 E-Commerce Recommendation System -- 3.1 E-Commerce Push Technology -- 3.2 Application of NEB Data Mining Technology in E-Commerce -- 4 Application of Data Mining Technology in E-Commerce -- 4.1 E-Finance -- 4.2 Customer Relationship Management -- 4.3 E-Commerce Marketing -- 4.4 Business Data Analysis -- 5 Concluding Remarks -- References. Analysis and Research on the Development of Illustration Design Under the Background of Data Analysis -- 1 Introduction -- 2 Artistic Expression of Artificial Intelligence -- 3 Practical Application of Artificial Intelligence in Art -- 4 Conclusion -- References -- Analysis of Big Data's Influence on the Development of Chinese Language and Literature -- 1 Introduction -- 2 Artificial Intelligence and Deep Learning -- 2.1 Overview of Artificial Intelligence -- 2.2 Deep Learning -- 3 The Influence of Network Language on the Development of Chinese Language and Literature -- 3.1 It Disturbs the Normalization Standard of Chinese Language and Literature -- 3.2 It Disturbs the Normal Interpretation of Chinese Language

and Literature -- 4 Conclusion -- References -- Auxiliary Design of Oil Painting by Computer Technology Under the Background of Big Data -- 1 Introduction -- 2 The Important Role of Real Emotion in Oil Painting Creation -- 3 The Artistic Expression of Rhythm and Rhythm in the Process of Oil Painting Creation -- 3.1 The Influence of Rhythm and Rhythm in Creation -- 3.2 The Expression form of Rhythm and Rhythm in Artistic Creation -- 4 The Influence of Visual Culture on Contemporary Oil Painting -- 4.1 The Lack of Spiritual Connotation Under the Influence of Mass Consumption Culture -- 4.2 The Confusion of Aesthetic Pursuit and Artistic Standard Under the Background of Visual Culture -- 5 The Penetration of Design Factors into Contemporary Oil Painting Creation -- 5.1 The Penetration of Design Elements in Visual Communication Design into Contemporary Oil Painting Creation -- 5.2 The Penetration of Product Design into Contemporary Oil Painting Creation -- 6 The Infiltration of Multimedia into Contemporary Oil Painting Creation -- 7 Design Factors in the Works of Western Painting Masters -- 7.1 The Relationship Between Animation and Painting.
7.2 Painting is the Foundation of Animation -- 7.3 Animation has a Unique Painting Style -- 8 Animation Masters' Reference for Artistic Ideas -- 9 Conclusion -- References -- Based on the Big Data Analysis of the Task-Driven Teaching Model of Electronic Circuit CAD Teaching Content Planning -- 1 Introduction -- 2 Research Objective -- 3 The Planning of the Basic Skills Teaching Module of Electrical Schematic Drawing -- 4 PCB Drawing Teaching Module Planning -- 4.1 Main Process -- 4.2 Part II -- 5 Conclusion -- References -- Construction of Management Model of Vocational Education Based on Data Analysis -- 1 Introduction -- 2 The Connotation of Deep Learning -- 3 Building Prediction Model -- 3.1 DEEP LEARNING Network Model Structure -- 3.2 Data Preprocessing -- 3.3 Content of Data Processing -- 4 Matlab Simulation Implementation -- 4.1 Learning Process of DEEP LEARNING -- 4.2 Result Analysis of DEEP LEARNING -- 5 Conclusion -- References -- Construction of Multi-dimensional Dynamic Innovation and Entrepreneurship Platform for College Students Under the Background of Big Data -- 1 Introduction -- 2 Research on Innovation and Entrepreneurship Mechanism of College Students Based on Multidimensional Dynamic Innovation Model -- 3 Research on the Importance of Influencing Factors of College Students' Innovation and Entrepreneurship Based on Multivariate Support Vector Machine -- 4 Data Analysis -- 4.1 College Students Should Take an Active Part in the Practice of Enterprises when they have Spare Time to Learn -- 4.2 First of All, Enterprises and Schools Should Sign a Confidentiality Treaty, so that Enterprises Can Provide Academic Resources for Colleges and Universities -- 4.3 In Order to Improve the Engineering and Pertinence of the Experimental Content, the Actual Project Example is Introduced -- 4.4 Developing Comprehensive Training Programs.
4.5 Choose Appropriate Enterprise Projects and Teacher Projects -- 4.6 Establish Resource Sharing Platform -- 5 The Historical Evolution of School Enterprise Cooperation in Higher Education -- 5.1 The Background of School Enterprise Cooperation in Higher Education -- 5.2 An Overview of the Development of School Enterprise Cooperation in China's Higher Education -- 6 Theoretical Discussion on the Relationship Between School Enterprise Cooperation and Entrepreneurship Education in Colleges and Universities -- 6.1 The Connotation and Characteristics of Entrepreneurship Education in Colleges and Universities -- 6.2 Analysis of the Mechanism of School Enterprise Cooperation on Entrepreneurship Education in Colleges

and Universities -- 6.3 Mechanism of School Enterprise Joint Construction of Entrepreneurship Education Practice Platform -- 7 Conclusion -- References -- Design and Implementation of Innovative Entrepreneurial Experience System for College Students Based on Data Analysis Model -- 1 Introduction -- 2 System Requirement Analysis -- 3 Research on the Importance of Influencing Factors of College Students' Innovation and Entrepreneurship Based on Multivariate Logistic Regression Analysis -- 3.1 Sample Pretreatment -- 3.2 Introducing Nonlinearity by Sigmoid Function -- 4 System Implementation and Test -- 4.1 Design of System Use Case Diagram -- 4.2 System Implementation -- 5 System Software Design -- 5.1 Overall Structure -- 5.2 Data Processing -- 6 Conclusion -- References -- Design and Implementation of Piano Performance Grading System Based on Data Analysis -- 1 Introduction -- 2 Introduction of Related Technologies -- 2.1 Basic Principle of Ant Colony Algorithm -- 2.2 Calculation Method -- 3 Multi Pitch Detection Algorithm Based on Non Negative Matrix Factorization -- 3.1 Introduction of Multi Pitch Detection Algorithm -- 3.2 Form of Expression.
4 Evaluation Index System and Evaluation Strategy.

Sommario/riassunto

This two-volume set constitutes the refereed proceedings of the First International Conference International Conference on Application of Big Data, Blockchain, and Internet of Things for Education Informatization. The conference was held in August 2021 and due to COVID-19 pandemic virtually. The 99 revised full papers and 45 short papers have been selected from 503 submissions. The papers describe research fields such as “big data” and “information education”. The aim of the conference is to provide international cooperation and exchange platforms for big data and information education experts, scholars and enterprise developers to share research results, discuss existing problems and challenges, and explore cutting-edge science and technology.