

1. Record Nr.	UNISA996547955803316
Titolo	Innovative Computing . Volume 1 Emerging Topics in Artificial Intelligence : Proceedings of IC 2023 // Jason C. Hung, Jia-Wei Chang, and Yan Pei, editors
Pubbl/distr/stampa	Singapore : , : Springer, , [2023] ©2023
ISBN	9789819920921 9789819920914
Edizione	[First edition.]
Descrizione fisica	1 online resource (1041 pages)
Collana	Lecture Notes in Electrical Engineering Series ; ; Volume 1044
Disciplina	004
Soggetti	Computer science Information technology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Intro -- Contents -- The International Workshop on Technique for Language and Literature Information Modeling (LIM 2023) -- A Study on Data Mining for Type of Korean Painting Poetry -- 1 Introduction -- 2 Research Methods -- 2.1 Data -- 2.2 Data Mining Techniques -- 3 Result -- 3.1 Extracting and Cataloguing -- 3.2 Type Classification -- 3.3 Syllable Unit Segments and Statistics -- 3.4 Analysis of the Meaning of Corpus -- 4 Conclusion -- References -- A Big Data Based Learning Model from Student Questionnaire -- 1 Introduction -- 2 Related Works -- 2.1 Big Data -- 2.2 Learning Model -- 3 Data Analysis for Students' Needs -- 3.1 Survey of Students' Requirements for Their Class -- 3.2 Frequency from the Survey -- 3.3 Learning Model -- 4 Conclusion -- References -- A Phonetic Investigation of Korean Monophthong Vowels by Vietnamese Female Speakers -- 1 Introduction -- 2 Methods -- 2.1 Participants -- 2.2 Procedure -- 3 Results -- 3.1 Production -- 3.2 Euclidean Distance -- 4 Discussion -- References -- Korean Causal Connective Expressions in a Cross-Linguistic and Cultural Perspective -- 1 Introduction -- 2 Korean Causal Connective Expressions -- 3 Data and Methodology -- 4 Korean Causal Connective Expressions in a Cross-linguistic Perspective -- 4.1 [+Negative] Feature in Causal Connective Expressions -- 4.2

[+Uncertainty] Feature in Causal Connective Expression -- 4.3
[+Plurality] Feature in Causal Connective Expression -- 4.4 Additional Findings -- 5 Conclusion -- References -- ICIC2023 -- Design and Implementation of Electromagnetic Field Simulation Platform for AC Testing -- 1 Introduction -- 2 Boundary Value Problems to Be Solved and Their Analytical Solutions -- 3 Principle of Numerical Method -- 4 Experimental Design -- 5 Analysis of Experimental Results -- 6 Conclusions -- References.

Organizational Layout and Optimization Model of Agricultural Logistics Industry Based on Ant Colony Algorithm -- 1 Introduction -- 2 Design Research -- 2.1 Analysis of the Cost of Rural Express Logistics Distribution -- 2.2 Design Goals and Principles -- 2.3 Algorithm Operation Process -- 3 Experimental Study -- 3.1 System Status Analysis and Parameter Setting -- 3.2 Functional Module Requirements -- 3.3 Non-functional Requirements -- 4 Experiment Analysis -- 4.1 Characteristics of Rural Express Logistics and Distribution -- 4.2 Delivery Service Issues -- 5 Conclusions -- References -- Application of Image Recognition in Equipment Monitoring -- 1 Introduction -- 2 System Architecture -- 3 System Key Technology -- 3.1 Identification Area Determination -- 3.2 Image Segmentation -- 3.3 Image State Recognition -- 3.4 Equipment Status Determination -- 4 System Test -- 5 Conclusions -- References -- Stability of Marine Physics Detection Sensor Based on Artificial Intelligence Technology -- 1 Introduction -- 2 Stability of Marine Physical Detection Sensors Based on Artificial Intelligence Technology -- 2.1 Marine Physical Detection Sensor Hardware and Functional Modules Based on Artificial Intelligence Technology -- 2.2 Software Design -- 3 Experimental Research Design -- 3.1 Experimental Equipment and Environment -- 3.2 Experimental Project -- 4 Analysis of Experimental Results -- 4.1 Sensor Electrode Stability -- 4.2 Data Analysis of Temperature Measurement and Debugging -- 5 Conclusion -- References -- Optimization System of Microbial Test on Account of Genetic Algorithm -- 1 Introduction -- 2 Design and Exploration of Microbial Test Optimization System on Account of Genetic Algorithm -- 2.1 Genetic Algorithm -- 2.2 Optimization System of Microbial Test Based on Genetic Algorithm. 3 Exploring the Effect of Optimization System for Microbial Testing on Account of Genetic Algorithm -- 4 Investigation and Analysis of Optimization System for Microbial Testing on Account of Genetic Algorithm -- 5 Conclusions -- References -- The Application of Virtual Reality Technology in Ophthalmology -- 1 Introduction -- 2 Overview of VR and Ophthalmology -- 3 Application of VR in Ophthalmic Clinical Field -- 3.1 Research in the Field of Myopia -- 3.2 Research in the Field of Eye Regulation and Convergence (Divergence) Function -- 3.3 Research in the Field of Strabismus -- 4 The Role of Visual Rehabilitation Training in Children with Visual Impairment -- 4.1 Amblyopia Treatment Based on VR -- 4.2 Research on the Types of Visual Function Defects Based on VR -- 5 Research on VR in Ophthalmology Teaching -- 6 Conclusions -- References -- Research on the Application of BIM Technology in the Whole Process Cost Management of Construction Project -- 1 Introduction -- 2 Whole Process Cost Management of Construction Project -- 2.1 Cost Management in Each Stage -- 2.2 Difficulties in the Implementation of the Whole Process Cost -- 3 BIM Technology is Applied in the Whole Process Cost to Do BIM Fusion Analysis -- 3.1 Investment Decision-Making Stage -- 3.2 Design Stage -- 3.3 Tendering and Bidding Stage -- 3.4 Construction Stage -- 3.5 Project Acceptance Stage -- 4 CASE -- 5 Conclusions -- References -- Modal Parameter Identification of Bridge Structure Based on Hybrid Genetic Algorithm -- 1

Introduction -- 2 MPI of Bridge Structure -- 2.1 Bridge Structure MPI Method -- 2.2 Parameter Identification During Bridge Construction -- 3 Frequency Domain MPI Based on HGA -- 4 MPI of Bridge Structure Based on HGA -- 4.1 Finite Element Theoretical Analysis Based on ANSYS -- 4.2 MPI Based on Genetic Algorithm -- 5 Conclusions -- References.

Overload Damage Detection Method of Motor Car Axle Based on Neural Network Algorithm -- 1 Introduction -- 2 Discussion on Overload Damage Detection Method of Motor Car Axle Based on Neural Network Algorithm -- 2.1 Overload Measurement Method of Motor Car Axle -- 2.2 Influence of Axle Overload on Motor Car -- 2.3 Factors Affecting Overload of Motor Car Axle -- 2.4 Neural Network Algorithm -- 3 Experimental Process of Overload Damage Detection Method of Motor Car Axle Based on Neural Network Algorithm -- 3.1 Process of Axle Overload Damage Detection Method Based on Neural Network Algorithm -- 3.2 Test Steps for Overload Damage Detection of Motor Car Axle Based on Neural Network Algorithm -- 4 Experimental Analysis of Overload Damage Detection Method of Motor Car Axle Based on Neural Network Algorithm -- 5 Conclusions -- References --

Ground Wire Status Object Detection Based on Cloud Application -- 1 Introduction -- 2 Design and Research of Ground Wire State Target Detection Based on Cloud Application -- 2.1 System Design -- 2.2 Analysis of Factors Affecting Metal Sheath Circulation -- 2.3 Algorithm Research of Ground Wire State Target Detection Based on Cloud Application -- 3 Experimental Study of Ground Wire State Target Detection Based on Cloud Application -- 3.1 Self-inductive Power Supply Circuit -- 3.2 Real-Time Data Monitoring System -- 4 Experimental Analysis of Ground Wire State Target Detection Based on Cloud Application -- 4.1 Induced Current Value of Cable Metal Sheath -- 4.2 Analysis of the Influence of Load Unbalanced Current -- 5 Conclusions -- References -- Design of Multimedia Assisted Course Based on Immersion Japanese Teaching -- 1 Introduction -- 2 Related Theoretical Overview and Research -- 2.1 Research on Multimedia Assisted Course Design -- 2.2 Theoretical Introduction to Immersion Teaching -- 3 Experiment and Research.

3.1 Experimental Method -- 3.2 Experimental Requirements -- 4 Analysis and Discussion -- 4.1 Analysis of Multimedia Auxiliary Course Layout -- 4.2 Analysis of the Use of Multimedia Auxiliary Courses -- 5 Conclusions -- References -- Analysis and Research of Intelligent

Distribution UAV Control System Based on Optical Flow Sensor -- 1 Introduction -- 2 Concept and Application Examples of Distribution UAVs -- 2.1 Amazon UAV Delivery Express -- 2.2 Swift Ant UAV and China Post Joint -- 2.3 Initial Applications in Emergency Blood Distribution -- 3 Research and Analysis of Intelligent Delivery Drones Based on Optical Flow Sensors -- 3.1 Optical Flow Positioning and Optical Flow Sensors -- 3.2 UAS Based on Optical Flow Sensor -- 3.3 Hover Correction System -- 3.4 UAS Applications Based on Optical Flow Sensors -- 4 Development Prospects -- References -- Method of Improving Logistics Distribution Efficiency by Combining Small Multi-rotor UAV with the Visual Recognition System -- 1 Introduction -- 2 Brief Introduction About Advantages of Small-Multi Rotor UAV Cooperating with Visual Recognition in the Distribution Process -- 2.1 Introduction of Visual Recognition Landing System Based on OpenMV -- 2.2 Advantages of the Combination of UAV and Visual Recognition -- 3 Several New Automatic UAV Distribution Schemes -- 3.1 Star Structure Distribution Scheme -- 3.2 Truck Delivery and UAV Distribution Scheme -- 4 Development Trend and Prospect of Small Multiwing UAV in Distribution -- 4.1 Development Trend of Small

Multiwing UAV'S Distribution -- 4.2 Prospects for Small Multi-rotor UAV Combined with Visual Recognition System in Delivery -- References -- Prediction Model of Popular Tourist Attractions Based on Big Data Fusion Algorithm -- 1 Introduction -- 2 Predictive Model Establishment and Big Data Fusion Algorithm.
2.1 Construction of a Tourist Attraction Prediction Model.

Sommario/riassunto

This book comprises select peer-reviewed proceedings of the 6th International Conference on Innovative Computing (IC 2023). The contents focus on communication networks, business intelligence and knowledge management, web intelligence, and fields related to the development of information technology. The chapters include contributions on various topics such as databases and data mining, networking and communications, web and Internet of Things, embedded systems, soft computing, social network analysis, security and privacy, optical communication, and ubiquitous/pervasive computing. This volume will serve as a comprehensive overview of the latest advances in information technology for those working as researchers in both academia and industry. .
