

1. Record Nr.	UNINA9910842295503321
Autore	Wang Wei
Titolo	Communications, Signal Processing, and Systems : Proceedings of the 12th International Conference on Communications, Signal Processing, and Systems: Volume 1
Pubbl/distr/stampa	Singapore : , : Springer, , 2024 ©2024
ISBN	981-9975-05-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (610 pages)
Collana	Lecture Notes in Electrical Engineering Series ; ; v.1032
Altri autori (Persone)	LiuXin ZhangBaoju
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Contents -- Text Recognition Method for Handwritten and Natural Scene Text Image: A Review -- 1 Introduction -- 2 The Characteristic of Text Image -- 2.1 The Characteristic of Handwritten Text Image -- 2.2 The Characteristic of Natural Text Image -- 3 The Text Recognition Method -- 3.1 Traditional Text Recognition Method Based on Morphology -- 3.2 Text Recognition Method Based on Deep Learning -- 4 Development Prospect for Text Recognition -- References -- RSA-ABE: A Hybrid Encryption Approach for Medical Privacy Data with Cloud Storage -- 1 Introduction -- 1.1 Background and Related Work -- 1.2 Our Solution -- 1.3 Contributions -- 2 Hybrid Encryption System -- 2.1 OpenABE -- 2.2 Two-Terminal Communication -- 3 Experiment and Results -- 4 Conclusion -- References -- Downlink Beamforming Technique for MU-MIMO-OFDM Systems -- 1 Introduction -- 2 System Model -- 2.1 STBC Encoder -- 3 Coded Beamforming -- 4 Contributions -- 5 Simulation Results -- 6 Conclusion -- References -- CNN Based Resource Management for D2D Networks with Wireless Networks Virtualization -- 1 Introduction -- 2 System Model -- 3 Problem Formulation and Proposed Method -- 3.1 Convolutional Neural Network Based Algorithm -- 4 Simulation Results and Analysis -- 4.1 Parameters -- 4.2 Results and Analysis -- 5 Conclusion -- References -- Research on Key Technologies

of Unmanned Combat Vehicle Early Warning Radar -- 1 Introduction -- 2 Key Technology Analysis -- 2.1 Integrated Technology of Active Phased Array Antenna -- 2.2 Real Time Target Classification and Recognition Technology -- 2.3 Integrated Anti-interference Technology -- 3 Conclusion -- References -- Study of the Adaptive Bandwidth Communication Method Based on Software Defined Radio -- 1 Introduction -- 2 System Analysis -- 3 System Design -- 4 Key Technologies -- 5 Simulation Verification -- 6 Conclusion. References -- Multi-spot Beam Wiener Model Channel Capacity Limit Analysis -- 1 Introduction -- 2 Multi-spot Beam Layout Model -- 3 Channel Capacity Mechanism -- 3.1 Optimal Linear Precoding Algorithm -- 3.2 Minimum Mean Square Error Precoding Algorithm -- 4 Simulation and Performance Analysis -- 5 Conclusion -- References -- Main Lobe Interference Suppression Method Based on Fractional Fourier Transform -- 1 Introduction -- 1.1 Signal Model -- 1.2 Principles Related to FRFT -- 2 Mainlobe Interference Suppression Algorithm -- 3 Simulation Results -- 4 Conclusions -- References -- Mangrove Species Classification in Qi'ao Island Based on Gaofen-2 Image and UAV LiDAR -- 1 Introduction -- 2 Study Area and Data Sets -- 2.1 Study Area -- 2.2 Data Sets -- 3 Methods -- 3.1 Mangrove Species Samples Selection -- 3.2 Random Forest Classification -- 3.3 Mangrove Species Classification Based on GaoFen-2 Image -- 3.4 Mangrove Species Classification Based on GaoFen-2 and CHM -- 3.5 Accuracy Assessment -- 4 Results and Discussion -- 4.1 Results -- 4.2 Discussion -- 4.3 Mapping -- 5 Conclusions -- References -- Mobile Traffic Prediction Based on AR-GARCH-LightGBM Hybrid Model -- 1 Introduction -- 2 System Structure -- 3 Model -- 3.1 DWT Model -- 3.2 ARIMA-GARCH Model -- 3.3 LightGBM -- 4 Community Traffic Prediction with Hybrid Model -- 4.1 ARIMA Linear Prediction -- 4.2 LightGBM -- 4.3 Model Evaluation -- 5 Conclusion -- References -- Named Entity Recognition of PCI Surgery Information Based on BERT+BiLSTM+CRF -- 1 Introduction -- 2 Methods -- 2.1 BERT -- 2.2 LSTM -- 2.3 CRF -- 3 Experiments and Results -- 3.1 Dataset -- 3.2 Result Analysis -- 4 Discussion and Conclusion -- References -- Stacking Ensemble Models Predict Mortality from Acute Myocardial Infarction -- 1 Introduction -- 2 Material and Methods -- 2.1 Data Collection and Data Preprocessing. 2.2 Feature Selection -- 2.3 Model Building -- 2.4 Evaluation Metrics -- 2.5 Statistical Analysis -- 3 Result -- 3.1 Baseline Characteristics -- 3.2 Results of Feature Selection -- 3.3 Results of Model Comparison -- 4 Discussion -- 5 Conclusion -- References -- LF-GANet: Local Frame-Level Global Dynamic Attention Network for Speech Emotion Recognition -- 1 Introduction -- 2 Methodology -- 2.1 Feature Extraction -- 2.2 Local Frame-Level Module (LFM) -- 2.3 Global Dynamic Attention Module (GAM) -- 3 Experiments -- 3.1 Datasets -- 3.2 Experimental Setup -- 3.3 Results and Analysis -- 4 Conclusions -- References -- Performance Analysis of DF-Based Satellite and UAV Relay Networks -- 1 Introduction -- 2 System and Channel Model -- 2.1 Channel Model -- 2.2 Signal Model -- 2.3 UAV Beamforming Scheme -- 3 Performance Analysis -- 4 Analysis of Simulation Results -- 5 Concluding Remarks -- References -- Composition Analysis and Identification of Ancient Glass Products Based on Random Forest Algorithm -- 1 Introduction -- 2 Dataset -- 3 Predict Original Composition Content -- 3.1 Data Preprocessing -- 3.2 Model -- 3.3 Results and Discussion -- 4 Classification of Category-Unknown Glass Instances -- 4.1 Classification and Results -- 4.2 Analysis and Discussion -- 5 Conclusions -- References -- CNN-Based Sea-Surface Target Detection Using Continuous Wavelet Transform -- 1

Introduction -- 2 Evaluation Criteria of Detectors -- 3 Feature Extraction -- 3.1 STFT -- 3.2 Continuous Wavelet Transform -- 3.3 Data Sampling and Preprocessing -- 4 ResNet Detector -- 4.1 Residual Network -- 4.2 Network Training -- 4.3 False Alarm Rate Control -- 5 Results and Comparison -- 6 Conclusion -- References -- Interference Exploitation Beamforming for Cognitive Radio Network with Energy Transfer -- 1 Introduction -- 2 System Model. 3 Robust Beamforming with Constructive Interference -- 4 Simulation Results -- 5 Conclusion -- References -- Kinematic Analysis and Programming Implementation of Patrol Robots Based on Ackermann's Principle -- 1 Introduction -- 2 Kinematic Analysis -- 3 Controlling the Steering Angle of the Front Wheels -- 4 The Programming of the Control -- 5 Conclusion -- References -- Task Allocation Algorithm for Multiple UAVs in IoT Networks -- 1 Introduction -- 2 Task Allocation Model -- 3 Task Allocation Based on Improved Immune Algorithm -- 3.1 Memory Population Initialization -- 3.2 Neighborhood Cloning Operation -- 3.3 Neighborhood Suppression Operation -- 3.4 Population Crossover Operation -- 3.5 Self Learning Operation -- 3.6 Partial 2-opt Operator -- 4 Simulation Results -- References -- Research on Distributed Dynamic Spectrum Access Based on Deep Reinforcement Learning -- 1 Introduction -- 2 System Model and Problem Formulation -- 2.1 State -- 2.2 Action -- 2.3 Reward -- 2.4 Policy -- 3 Proposed DRL Algorithm -- 4 Simulation Results -- 5 Conclusion -- References -- Study on the Inversion of Dissolved Oxygen in Water Based on HJ-1A Hyperspectral Data -- 1 Introduction -- 2 Data Acquisition and Preprocessing -- 2.1 Acquisition of Measured Data -- 2.2 Acquisition and Preprocessing of Remote Sensing Image Data -- 3 Semi-Empirical Linear Regression Modeling -- 3.1 Pearson Correlation Analysis -- 3.2 Establishment of DO Inversion Model -- 4 Conclusion -- References -- Research on the Impact of 5G Terminals on Electromagnetic Radiation of 5G Base Stations -- 1 5G NR Mobile Communication System -- 1.1 Introduction of 3GPP Release 15, 16, 17 for the History of 5G -- 1.2 Channel and Beam Profile for 5G NR -- 2 Electromagnetic Radiation from 5G Base Stations in Different 5G Terminal Application Scenarios -- 2.1 Application Scenarios Specified in HJ1151-2020. 2.2 Problem Formulation -- 2.3 Practical Testing -- References -- Lightweight Infrared and Visible Image Fusion Based on Attention Mechanism and Receptive Field Enhancement -- 1 Introduction -- 2 Method -- 2.1 DenseFuse: A Fusion Method to Infrared and Visible Images -- 2.2 Lightweight Infrared and Visible Image Fusion Based on Attention Mechanism and Receptive Field Enhancement -- 3 Experiment and Result Analysis -- 3.1 Experimental Details and Parameter Settings -- 3.2 Comparative Experiment -- 3.3 Ablation Experiment -- 4 Conclusion -- References -- Lightweight Feature Fusion for Single Shot Multibox Floater Detection -- 1 Introduction -- 2 Related Work -- 2.1 Lightweight Network -- 2.2 SSD Network -- 3 SSD Networks Based on Lightweight Feature Fusion -- 3.1 Lightweight Backbone Network -- 3.2 Lightweight Feature Fusion Module -- 4 Experiments and Analysis of Results -- 4.1 Comparative Analysis of Different Algorithms -- 4.2 Ablation Experiment -- 5 Conclusion -- References -- LOS/NLOS Detection in UWB Localization System with Anchors Deployment Along a Narrow Path -- 1 Introduction -- 2 Problem Statement -- 3 LOS/NLOS Detection Algorithm -- 3.1 Single Path LOS/NLOS Detection -- 3.2 Multipath LOS/NLOS Detection -- 3.3 LOS/NLOS Detection Based on Tetrahedron Volume -- 4 Simulation Results -- 5 Conclusion -- References -- Stackelberg Game Based Adaptive Value Evaluation Strategy -- 1 Introduction -- 2 Research

Method -- 2.1 Stackelberg Game -- 2.2 Backward Induction -- 3 Model Building -- 3.1 Assumptions and Parameters -- 3.2 Model Building -- 4 Calculation -- 4.1 The First Model -- 4.2 The Second Model -- 5 Example Analysis -- 5.1 Three Basic Recycle Models -- 5.2 Examples -- 6 Conclusion -- References -- Surface Defect Detection Method of Strip Steel Based on Improved YOLOv5 -- 1 Introduction -- 2 Related Works -- 3 Methodology.
3.1 SeC3 Module Integrated with SENet.
