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Nota di contenuto	Intro -- Preface -- Organization -- Contents -- Theory and Technology on Wireless Sensor Network -- MPR Node Selection Improvement in OLSR Based on Binary Cuckoo Search -- 1 Introduction -- 2 Related Works -- 3 Cuckoo Search and Binary Cuckoo Search -- 3.1 Cuckoo Search -- 3.2 Binary Cuckoo Search -- 4 Proposed Protocol -- 4.1 Weight of Candidate Nodes -- 4.2 The MPR Node Selection Based on BCS -- 5 Performance Evaluation -- 6 Conclusions -- References -- Research on Energy Consumption Optimization Using a Lyapunov-Based LSTM-PSO Algorithm -- 1 Introduction -- 2 System Model -- 2.1 System Basic Elements -- 2.2 Transmission Model -- 2.3 Task Queue Model -- 2.4 Energy Model -- 3 Problem Formulation -- 3.1 Setting up Lyapunov Virtual Pairs of Columns -- 3.2 Constructing the Lyapunov Function -- 4 Algorithm Design -- 5 Numerical Results -- 5.1 Basic Settings -- 5.2 Evaluation with Different Delay Requirement Task -- 6 Conclusion -- References -- Attitude-Aware Based Geographical Opportunity Routing Protocol for Floating Wireless Sensor Network -- 1 Introduction -- 2 Background and Motivation -- 2.1 Attitude-Aware Based Link Model -- 2.2 Geographical Opportunity Routing Protocol -- 3 Design -- 3.1 Overview -- 3.2 Network Initialization -- 3.3 Forwarding Area Establishment -- 3.4 Relay Node Selection -- 4 Evaluation -- 4.1 Experiment Setup -- 4.2 Attitude Angle in Real Scenario -- 4.3 End-to-End Reliability -- 4.4 End-to-End Delay -- 5 Related Work -- 6 Conclusion -- References -- Dynamic Liveness Detection Based on Fusion of mmWave Radar and Vision -- 1 Introduction -- 2 Motivation -- 2.1 Limitation of Existing Solutions -- 2.2 Opportunity -- 3 mmWave Radar Feature Extraction Mechanism for Live Cyclist -- 3.1 Radar Data Collection and Processing -- 3.2 Radar Cross Section (RCS) -- 3.3 Building Signal Strength Reference Database. 3.4 RCS Value: Cyclists vs. Visual Interference -- 3.5 Summary -- 4 mmWave Radar and Vision Fusion Mechanism -- 4.1 mmWave Radar Pixel Image -- 4.2 Multi-modal Feature Extraction -- 4.3 Feature Fusion Module Based on Attention Mechanism -- 5 Evaluation -- 5.1 Dataset and System Environment -- 5.2 Evaluation Methodology -- 5.3 Overall Performance -- 5.4 Sensitivity Analysis -- 6 Conclusion -- References -- LMCRA: A Reliable Satellite Internet Routing Method with Low Maintenance Cost -- 1 Introduction -- 2 Related Work -- 2.1 Centralized Routing -- 2.2 Distributed Routing -- 2.3 Hybrid Routing -- 3 System Architecture -- 4 Algorithm Design -- 4.1 Calculation of Satellite Network Period and Design of Low Maintenance Cost Routing -- 4.2 A Routing Algorithm Considering Latency and Path Stability During a Cycle -- 4.3 Fast ReRouting Mechanism -- 5 Simulation Experiment Evaluation -- 5.1 Simulation Environment -- 5.2 The Impact of Networking Methods on Algorithm Performance -- 5.3 The Impact of Time Spans (Parameter N) on Algorithm Performance -- 5.4 The Impact of Constellation Density on Algorithm Performance -- 5.5 Evaluation of FRR-BP -- 6 Conclusion -- References -- Application on Internet of Things -- WiHI: Indoor Human Identification with WiFi Signals -- 1 Introduction -- 2 Preliminary -- 3 System Design -- 3.1 System Architecture -- 3.2 Data Collection -- 3.3 Data Processing -- 3.4 Motion Change Pattern Extraction -- 3.5 Human Identification -- 4 Experiments and Evaluation -- 4.1 Overall Performance -- 4.2

Performance Evaluation -- 4.3 Limitations and Discussion -- 5 Conclusion -- References -- Age of Information-Based Channel Scheduling Policy in IoT Networks Under Dynamic Channel Conditions -- 1 Introduction -- 2 System Model -- 2.1 AoI and Throughput Model -- 2.2 Problem Definition -- 3 Scheduling Policy.
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3.2 Spatio-Temporal Graph.

Sommario/riassunto

This book constitutes the refereed proceedings of the 17th China Conference on Wireless Sensor Networks, CWSN 2023, which took place in Dalian, China, in October 2023. The 22 full papers presented in this volume were carefully reviewed and selected from 105 submissions, including 38 English papers and 67 Chinese papers. The conference provided an academic exchange of research and a development forum for IoT researchers, developers, enterprises, and users. Exchanging results and experience of research and applications in IoT, and discussing the key challenges and research hotspots, is the main goal of the forum. As a high-level forum for the design, implementation, and application of IoT, the conference promoted the exchange and application of the theories and technologies of IoT-related topics.