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6 Conclusion -- References -- Industrial Wisdom Based on 5G Customized Network -- 1 Introduction -- 2 The Design Concept of the Industrial Wisdom -- 2.1 China Telecom's 5G Customized Network Provides Cloud and Network Support for Smart Industrial Life Forms -- 2.2 Sedna, an Edge-Cloud Collaborative AI Platform, Provides Platform Support for Smart Industrial Life Forms -- 2.3 Application Ability: PCB Board Solder Joint Quality Inspection -- 3 Deployment of the Industrial Wisdom -- 3.1 Lifelong Learning Realizes Closed-Loop Update of Application Model -- 3.2 Federated Learning Breaks Multi-plant Data Silos -- 4 Implementation -- 4.1 Implementation of the Deployment of Internal Production Lines in the Factory -- 4.2 Implementation of Multi-plant Deployment -- 5 Conclusion -- References -- Implementation of DOA Estimation Algorithm Based on FPGA -- 1 Introduction -- 2 Design of HLS Project -- 2.1 Algorithm Implement -- 2.2 Parallel Optimization -- 3 Simulation and Analysis -- 3.1 Accuracy Compared with MATLAB -- 3.2 Estimation Speed -- 4 Conclusion -- References -- Research on Dynamic Spectrum Allocation of Space-Air-Ground Integration -- 1 Introduction -- 2 SAG Integrated Communication Network -- 3 SAG Integration Spectrum Requirements -- 4 Dynamic Spectrum Allocation -- 5 Dynamic Spectrum Allocation Method Based on Multi-intelligent Body Strength -- 5.1 Dynamic Spectrum Allocation Model Analysis Based on DEC-POMDP -- 5.2 Dynamic Spectrum Allocation Method Based on DEC-POMDP Model -- 6 SAG Integration Spectrum Allocation -- 7 Conclusion -- References -- Research on Intelligent Access of Space-Air-Ground Integrated Network -- 1 Introduction -- 2 Space-Air-Ground-Sea Intergrated Network -- 2.1 Overview of the Research on Space Earth Integrated Network -- 2.2 Selection of Cross Layer Data Communication Gateway.
3 Access of Space-Air-Ground-Sea Intergrated Network -- 3.1 Wireless Access Control Based on Artificial Intelligence -- 3.2 Multiple Access Selection in Heterogeneous Wireless Networks -- 4 Reinforcement

Learning Based Intelligent Access of Space-Air-Ground-Sea Intergrated Network -- 4.1 Heterogeneous Wireless Network Access Algorithm -- 4.2 Heterogeneous Wireless Network Access Algorithm Based on Reinforcement Learning -- 5 Conclusion -- References -- Spectrum Sensing Based on Federated Learning with Value Evaluation Mechanism -- 1 Introduction -- 2 System Work -- 3 Spectrum Sensing Based on FL -- 3.1 Work Flow -- 3.2 Value Evaluation Mechanism of Parameters -- 4 Numerical Result -- 5 Conclusion -- References -- Application of Artificial Intelligence for Space-Air-Ground-Sea Integrated Network -- 1 Introduction -- 2 Space-Air-Ground-Sea Integrated Network -- 2.1 Geostationary Satellite Constellation -- 2.2 Non Geostationary Orbit Satellite Constellation -- 3 Artificial Intelligence for Space-Air-Ground-Sea Integrated Network -- 3.1 Deep Belief Architecture -- 3.2 Deep Q-network -- 3.3 LSTM -- 3.4 Convolutional Neural Networks -- 3.5 DDPG -- 4 Application of Reinforcement Learning for Space-Air-Ground-Sea Integrated Network -- 4.1 Network Control Based on Reinforcement Learning -- 4.2 Resource Allocation Based on Reinforcement Learning -- 4.3 Network Access Selection Based on Reinforcement Learning -- 5 Conclusion -- References -- Machine Learning Based 5G RAN Slicing for Channel Evaluation in Mobile State -- 1 Introduction -- 2 Related Work -- 3 System Model -- 4 Simulation and Analysis -- 5 Conclusion -- References -- Use Case Analysis and Architecture Design for 5G Emergency Communications -- 1 Introduction -- 2 Basics of 5G Public Safety Network -- 2.1 Application of Dynamic Message Provision in 5G Public Safety Network.
2.2 Application of Network Slicing in 5G Public Safety Network -- 2.3 Application of C-RAN in 5G Public Safety Network -- 2.4 Application of D2D in 5G Public Safety Network -- 3 Emergency Communication Solutions Based on 5G -- 3.1 Portable 5G Private Network and 5G Public Network Collaboration Solution -- 3.2 Public Network UPF Sinking Solution -- 4 Conclusions -- References -- A Resource Allocation Method for Power Backhaul Network Based on Flexible Ethernet -- 1 Introduction -- 2 Related Work -- 3 Problem Description -- 3.1 FlexE Transport Mode -- 3.2 Specific Description of the Problem -- 4 Flow Scheduling Algorithm -- 4.1 FlexE-Unaware Scheduling Algorithm -- 4.2 FlexE-Terminating Scheduling Algorithm -- 5 Experiments and Results -- 5.1 Algorithm Evaluation Index and Test Scheme -- 5.2 Horizontal Comparison of Three Modes -- 6 Conclusion -- References -- Cooperative Routing Algorithm for Space-Based Information Network Based on Traffic Forecast -- 1 Introduction -- 2 Cooperative Routing Model -- 2.1 Space-Based Information Network Architecture -- 2.2 Satellite Traffic Forecast Method Based on LSTM -- 2.3 Space-Based Information Network Routing Planning Problem Model -- 3 Cooperative Routing Algorithm -- 3.1 Space-Based Information Network High and Low Orbit Satellite Cooperative Algorithm (HLCRA) -- 3.2 Comparison Algorithm and Time Complexity Analysis -- 4 Simulation -- 4.1 Simulation Scenarios and Simulation Parameter Settings -- 4.2 Simulation Results and Analysis -- 5 Concluding Remarks -- References -- Exploration on the Practice Teaching of Environmental Design Network Based on Mobile Internet Technology -- 1 Introduction -- 2 Problems Existing in Practical Teaching of Environmental Design Major -- 3 Practical Teaching System of Environmental Design Major in the Internet Plus Era.
4 Reform Measures of Practical Teaching of Environmental Design Major in the Internet Plus Era -- References -- Modern Information Technology Develops Intelligent Elderly Care Service Industry -- 1 Introduction -- 2 The Current Situation of China's Elderly Service Industry -- 2.1 The Demand of Elder Care Institutions Exceeds