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	Nota di contenuto	Accelerating Q-ary Sliding-Window Belief Propagation algorithm with GPU -- A simple and reliable acquisition algorithm for low-orbit satellite signal -- An FPGA based Reconfigurable MAC Architecture for Universal Short Range Communication Networks -- Research on Unambiguous Acquisition of BOC Modulated Navigation Signal -- Distributed Network Resource Allocation Protocol Based on Collision Scattering and Push-pull Cascading Mechanism -- Edge Intelligence And Computing For IoT Communications And Applications -- Acoustic Frequency Division Based on Active Metamaterial:An Experimental Demonstration of Acoustic Frequency Halving -- Computation Offloading and Security with Q-learning -- Distributed Resource Allocation Policy for Network Slicing with Inter-Operator Bandwidth Borrowing -- Power-Efficient Communication for UAV-Enabled Mobile Relay System -- Reliable Index Modulation Aided Spatial M-ary DCSK Design -- A Contract-based Incentive Mechanism for Resource Sharing and Task Allocation in Container-based Vehicular Edge Computing -- A New Method for Deriving Upper Bound of OCR-TDMA Performance -- Task Migration using Q-learning Network Selection for Edge Computing in Heterogeneous Wireless Networks -- Measurement and Analysis of

Fading Characteristics of V2V Propagation Channel at 5.9 GHz in Tunnel -- Arrival Prediction based Reservation MAC for the Next Generation WLAN -- OFDMA based Synchronization protocol for Distributed MIMO in the Next Generation WLAN -- Vehicle Feature Point Trajectory Clustering and Vehicle Behavior Analysis in Complex Traffic Scenes -- Ubiquitous Services Transmission For Internet of Things -- DOS/SP: Distributed Opportunistic Channel Access with Smart Probing in Wireless Cooperative Networks -- Energy-efficient Resource Allocation for Mobile Edge Computing System Supporting Multiple Mobile Devices -- Dynamic Maximum Iteration Number Scheduling LDPC Decoder for Space-based Internet of Things -- A Temperature Sensor System in the 4G-Based Internet of Things -- Compressive-sensing Based Codec of the Y Color Component for Point Cloud -- Wireless Automated Networking For Internet of Things -- Channel Exploration and Exploitation with Imperfect Spectrum Sensing for Multiple Users -- Distributed Scheduling in Wireless Multiple Decode-andforward Relay Networks -- Theoretical and experimental comparisons of the self-pressurization in a cryogenic storage tank for IOT application -- Vulnerability Analysis of Wireless Sensor Networks via Maximum Flow Interdiction -- Research on Integrated Management System of Water and Fertilizer Based on Internet of Things -- Impact Analysis of Realistic Human Mobility over Wireless Network -- Networking Technology for IoT -- Hexagram Linkage: An Ambient Assistive Living System with Healthcare for Elderly People Living Alone -- Message Transmission Reliability Evaluation of CAN Based on DSPN -- Sliding-Window Belief Propagation with Unequal Window Size for Nonstationary Heterogeneous Source -- Traffic Lights Detection Based on Deep Learning Feature -- A Novel Algorithm for HRRP Target Recognition Based on CNN -- Analysis of the Influence of CAN bus Structure on Communication Performance -- Failure Reasons Identification for the Next Generation WLAN: a Machine Learning Approach -- Deep Convolutional Neural Network based Traffic Vehicle Detection and Recognition -- Industrial Internet of Things Interoperability between OPC UA and oneM2M -- Accuracy Analysis on GDOP of Pseudolite Positioning System Based on TDOA Technology -- Research And Simulation Of Physical Layer Abstraction Model For Next Generation WiFi Integrated Simulation -- Traffic Arrival Prediction for WiFi Network: a Machine Learning Approach -- Enabling IoT/M2M System Scalability with Fog Computing -- Towards Efficient Privacy-preserving Personal Information in User Daily Life -- Properties and performance of the orbital-angularmomentum modes in wireless communication -- Vehicle re-identification using joint pyramid feature representation network -- Generation and Performance Evaluation of Distributed Interference Based on Multiple-wavelet -- Analysis of ADAS technology principle and application scenario -- Electromagnetic Wave with OAM and Its Potential Applications in IoT -- Propagation properties of optical beams with multi-OAM modes: effect of the off-axis vortex -- Unequally Weighted Sliding-Window Belief Propagation for Binary LDPC Codes -- Direction of arrival estimation of spread spectrum signal -- A Trigger-Free Multi-user Full Duplex User-Pairing Optimizing MAC Protocol -- Adaptive Block ACK for Large Delay of Space-Terrestrial Integrated Network -- Design and Implementation of Tunnel Environment Monitoring System Based on LoRa -- Wyner-Ziv Video Coding for Highway Traffic Surveillance using LDPC Codes.

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the Fifth International Conference on IoT as a Service, IoTaaS 2019, which took place in Xi'an, China, in November 2019. The 54 revised full papers were carefully reviewed and selected from 106 submissions.

The papers contribute to the discussion on the challenges posed by Internet of Things (Io). The two technical tracks and three workshops deal in detail: Networking and Communications Technologies for IoT, IoT as a service, International Workshop on Edge Intelligence and Computing for IoT Communications and Applications, International Workshop on Wireless Automated Networking for Internet of Things, and International Workshop on Ubiquitous Services Transmission for Internet of Things.