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Nota di contenuto	Algorithm and Information For Wireless Network -- Approximation of DAC Codeword Distribution for Equiprobable Binary Sources along Proper Decoding Paths -- Research on Multi-UAV Swarm Control Based on Olfati-Saber Algorithm with Variable Speed Virtual Leader -- Resource Joint Allocation Scheme based on Network Slicing under C-RAN Architecture -- Optimal Thresholds for Differential Energy Detection of Ambient Backscatter Communication -- Resource Allocation for Multi-UAV Assisted Energy-Efficient IoT Communications With Co-Channel Interference -- Correlation Based Secondary Users Selection for Cooperative Spectrum Sensing Network -- The Design Methodology for MAC Strategies and Protocols -- Supporting Ultra-low Delay Services in Next Generation IEEE 802.11 WLAN -- ction for multimode sensors in Wireless Sensor Network -- ricing Based

Resource Allocation Algorithm in Wireless Aeronautics Network Virtualization -- Access algorithm in software-defined satellite network -- A Low-Loss Strategy for Network Function Virtualization Multicast Optimization -- A Deployment Method Based on Artificial Bee Colony Algorithm for UAV-Mounted Base Stations -- Edge Intelligence and Computing For IoT Communications And Applications -- 13 Trajectory Optimization for UAV-Aided Data Collections -- Design and Implementation of MCU-Based Reconfigurable Protocol Conversion Module for Heterogeneous Sensor Networks -- FPGA-based Neural Network Acceleration for Handwritten Digit Recognition -- Edge Computing based Two-Stage Emergency Braking in Autonomous Driving -- Cache Resource Allocation in D2D Multi-Layer Social Network Enhanced Frame Break Mechanism for ALOHA-Based RFID Anti-Collision Algorithm -- Improved Intelligent Semantics based Chinese Sentence Similarity Computing for Natural Language Processing in IoT -- Statistical Feature Aided Intelligent Deep Learning Machine Translation in Internet of Things -- An automated method of identifying incorrectly labelled images based on the sequences of loss functions of deep learning networks -- Low-Latency Method and Architecture for 5G Packet-Based Fronthaul Networks -- 23 Automated Cataracts Screening from Slit-lamp Images Employing Deep Learning -- System & Hardware A Flowchart based Finite State Machine Design and Implementation Method for FPGA -- A Distributed Reservation and Contention Combined TDMA Protocol for Wireless Avionics Intra-Communication Networks -- The automation tool development for aircraft cockpit display systems verification in part of text data -- Design of ‘floating, medium and sinking’ pressure simulation system for remote reduction of pulse condition in TCM -- A Flexible and Scalable Localization System for off-the-shelf LoRa Devices -- Research on Optical-electrical Path Mapping strategy of Space Hybrid Switches -- Algorithm for multipath interference restraint based on blind source separation in Passive GNSS-Based bistatic Radar Multi-kernel and Multi-task Learning for Radar Target Recognition Information topology control technology of cluster satellite network -- Smart Home Security System Using Biometric Recognitions -- Internet of Things in the Game of Basketball Next Generation Network -- 35 Object Recognition Through UAV Observations Based on Yolo and Generative Adversarial Network -- Soft Channel Reservation towards Latency Guarantee for the Next Generation WLAN: IEEE 802.11be -- The methodology of the optimal four-dimensional route searching for a decision support system providing solutions for four-dimensional navigation -- Multi-list design and FPGA implementation method of OLSR routing protocol -- Improvement of Contact Graph Routing Algorithm in LEO Satellite DTN Network -- Double-Threshold-Based Massive Random Access Protocol for Heterogeneous MTC Networks -- IP addressing and address management of space-based network based on geographical division -- A Convolutional Neural Network Approach for Stratigraphic Interface Detection -- A Deep Neural Network based Feature Learning Method for Well Log Interpretation -- Trust Prediction Model based on Deep Learning in Social Internet of Things -- An alarm system based on neural network algorithm for detection of falls in the elderly -- Satellite Communication Networks for Internet of Things -- The Intelligent Routing Control Strategy based on Deep Learning -- Distributed Opportunistic Channel Access with Optimal Single Relay under Delay Constraints -- Distributed Opportunistic Channel Access under Single-bit CSI Feedback Spectrum Allocation Algorithm for Energy-Constrained UAV in Interweave Cognitive IoT Network Based on Satellite Coverage -- Edge Network Extension Based on Multi-Domains

Fusion and LEO Satellite -- Completion of Marine Wireless Sensor Monitoring Data Based on Tensor Mode-n Rank and Tucker Operator -- Belief Propagation-based Joint Iterative Detection and Decoding Algorithm for Asynchronous IDMA Satellite Systems -- Modulation Pattern Recognition Based on Wavelet Approximate Coefficient Entropy -- A new message passing algorithm based on sphere decoding improvement -- A Novel Codebook Design Scheme for Sparse Code Multiple Access -- Multi-View Polarization HRRP Target Recognition Based on Convolutional Neural Network -- Millimeter-Wave Communications With Beamforming for UAV-Assisted Railway Monitoring System -- Improved Pulse Shaping Algorithm for Reducing PAPR in OFDM System -- Image and Information -- Information Optimization for Image Screening and Transmission in Aerial Detection -- Method of Quality Assessment for BOC Navigation Signal based on multi-correlation receiver -- Satellite Navigation Software Receiver Design -- A Novel Pansharpening Method with Multi-scale Mutual-structure Perception -- A New Fusion Method for Remote Sensing Images.

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the 6st International Conference on IoT as a Service, IoTaaS 2020, which took place in Xi’an, China, in November 2020. Due to COVID-19 pandemic the conference was held virtually. The 69 revised full papers were carefully reviewed and selected from 136 submissions. The papers present two technical tracks and three workshops: The Second Workshop on Edge Intelligence and Computing for Iot Communications and Applications, the Workshop on Satellite Communication Networks for Internet of Things, the Workshop on Satellite Communications .