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Nota di contenuto	28GHz MIMO Channel Characteristics Analysis for 5G Communication Systems -- A Caching Strategy Based on User Interest in Content-Centric Network -- Node Localization based on Multiple Radio Transmission -- Power Levels for Wireless Sensor Networks -- End-to-End Transmission Performance Optimization based Routing Selection Algorithm for Software Defined Networking -- Research on video services with QoE perception over future wireless networks -- Tree-LSTM Guided Attention Pooling of DCNN for Semantic Sentence Modeling -- Multi - Base Station Energy Cooperation Based on Nash Q - Learning Algorithm -- Crowdfunding assisted Cellular System

Analysis and Application -- A Survey on Security Issues in Big Data of Ubiquitous Network -- Telecom Big Data based User Analysis and Application in Telecom Industry -- Coverage Optimization in Self-Organizing Small Cells -- Expectation Maximization for Multipath Detection in Wideband Signals -- Dynamic Resource Orchestration of Service Function -- Chaining In Network Function Virtualization -- Support Recovery for Multiband Spectrum Sensing Based on Modulated Wideband Converter with SwSOMP Algorithm -- Traffic Scheduling Algorithms for OFDM Based Radio Systems -- Coverage Performance in Cognitive Radio Networks with Self-Sustained Secondary Transmitters -- A Novel Algorithm of UAV-Mounted Base Station Placement and Frequency Allocation -- Throughput Analysis for Full-Duplex Based Device-to-Device Communications -- Joint Mode Selection and Resource Allocation in Underlaying D2D Communication -- PAPR Reduction with Amplitude Clipping and Subband Filter in Filtered-OFDM System -- Throughput Maximization for Two-Hop Decodeand-Forward Relay Channels with Non-Ideal Circuit Power -- Big Data-driven Vehicle Mobility Analysis and Design for 5G -- Complexity Analysis of Massive MIMO Signal Detection Algorithms Based on Factor Graph -- Per-Antenna Maximum Likelihood Detector for Massive MIMO -- Joint User-Association and Resource-Allocation in Virtualized C-RAN -- Adaptive Resource Allocation for Device-to-Device Aided Cellular Systems -- Radio Access Network -- Iterative Receiver with Gaussian and Mean-Field Approximation in Massive MIMO Systems -- Research and Application of Summer High Temperature Prediction Model Based on CART Algorithm -- Research on Peak-to-Average Power Ratio Reduction for FBMC-based 5G Transmission -- A Machine Learning based Engine Error Detection Method -- Beamforming Design for Physical Layer Security and Energy Efficiency Based on Base Station Cooperation. .

Sommario/riassunto

This book constitutes the proceedings of the First International Conference on 5G for Future Wireless Networks, 5GWN 2017, held in Beijing, China, in April 2017. The 64 full papers were selected from 135 submissions and present the state of the art and practical applications of 5G technologies. The exponentially growing data traffic caused by the development of mobile Internet and smart phones requires powerful networks. The fifth generation (5G) techniques are promising to meet the requirements of this explosive data traffic in future mobile communications.