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Nota di contenuto	Analyzing Sensor Network Data: A Case of Graph vs Topological Signal Processing -- The 5G Debate in New Zealand: Government Actions and Public Perception Routing -- EL-CRP: An Energy and Location Aware Clustering Routing Protocol in Large Scale Wireless Sensor Networks -- LEER Layer-Based and Energy-Efficient Routing Protocol for Underwater Sensor Networks.-A Routing Void Handling Protocol based on Autonomous Underwater Vehicle for Underwater Acoustic Sensor Networks.-Optimal Packet Size Analysis for Intra-Flow Network Coding Enabled One Hop Wireless Multicast Access Control.-MBA-DbMAC: A Random-Access MAC Protocol for MBAs -- Blockchain-aided

Access Control for Secure Communications in Ad Hoc Networks -- Investigating Mobility Robustness in 5G Networks using User-Adaptive Handoff Strategies.-The Effect of Propagation Models on IEEE 802.11n over 2.4 GHz and 5 GHz in Noisy Channels: A Simulation Study -- Medium Access Control for Flying Ad Hoc Networks Using Directional Antennas: Challenges, Research Status, and Open Issues -- Resource Allocation.-Fair Resource Allocation Based on Deep Reinforcement Learning in Fog Networks -- Multi-agent Reinforcement Learning for Joint Wireless and Computational Resource Allocation in Mobile Edge Computing System -- Cooperative Transmission with Power Control in the Hyper-Cellular Network -- Energy-Efficient Power Allocation for Fading Device-to-Device Channels in Downlink Resource Sharing Communication.-Delay based Wireless Scheduling and Server Assignment for Fog Computing Systems Localization and Tracking.- High precision indoor positioning method based on UWB -- Improvement of a Single Node Indoor Localization System -- An Efficient Approach for Rigid Body Localization via Single Base Station Using Direction of Arrival Measurement Design and Mobile Tracking Performance of a Retro-Directive Array (RDA) Antenna System -- Miscellaneous Topics in Ad Hoc Networks (I) -- The Effects of Non-Line of Sight (NLOS) Channels on a Highly Mobile User Device -- Multiobjective collaborative beamforming for a distributed satellite cluster via NSGA-IIAMP inspired Antenna Activity and Signal Detection Algorithm for Generalized Spatial Modulated NOMA -- A Filtering Dimension Reduction Decoding Algorithm for Underwater Acoustic Networks -- Miscellaneous Topics in Ad Hoc Networks (II) -- A Homology Based Coverage Optimization Algorithm for Wireless Sensor Networks.-Rail Vehicle Fire Warning System Based on Gas Vapor Sensor Network -- Guessing Intrinsic Forwarding Trustworthiness of Wireless Ad Hoc Network Nodes -- Machine Learning Based Smart IoT Gateway on Edge.

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#### Sommario/riassunto

This book constitutes the refereed proceedings of the 11th International Conference on Ad Hoc Networks, ADHOCNETS 2019, held in Queenstown, New Zealand, in November 2019. The 28 full papers were selected from 64 submissions and cover a variety of network paradigms including mobile ad hoc networks, sensor networks, vehicular networks, underwater networks, airborne networks, underground networks, personal area networks, device-to-device (D2D) communications in 5G cellular networks, and home networks. The papers present a wide range of applications in civilian, commercial, and military areas.

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