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Nota di contenuto	Detection and Recognition of Moving Biological Objects for Autonomous Vehicles using Intelligent Edge Computing/LoRaWAN Mesh System -- Method of Constructing Node Map in Wireless Mesh Sensor Network -- Applying the Concept of Software-Defined Networking in Wireless Mesh Network -- Analytical Model for Software Defined Network Considering Memory Node for Routing Rules -- Secure MBR Array Codes in the Presence of Special Type Eavesdropper -- Improvement of a Dactyloscopic Authentication Security Using Polarimetric Technique -- Method of Comparison of Neural Network Resistance to Adversarial Attacks -- Comparative Analysis of Cryptographic Key Management Systems -- Detection of Anonymised Traffic: Tor as Case Study -- Polyhedra of Finite State Machines and their Use in the Identification Problem -- Probability Distributions of Instantaneous Amplitude Values of Random Optimal FTN Signal Sequences with Controlled ISI -- A Method of finding Optimal Parameters of Speckle Noise Reduction Filters -- Performance Optimization of Communication System Cooperating with the MIMO Radar -- Performance of 5G SU-MIMO employing OFDM Bandwidth and Per-subcarrier Precoding -- Noncoherent Detection of Optimal FTN Signals with Differential Encoding -- On Application of Hard-Clipping and Soft-Clipping for SEFDM Signal with Optimal Envelope --

Evaluation of the Packet Transmission Delay Variation in the G/G/1 System -- The Fourier Series Model for Predicting Sapflow Density Flux based on TreeTalker Monitoring System -- A Jamming Latency Game with Incomplete Information on Network Parameters -- Analytical Model of Early HARQ Feedback Prediction -- Analytical Model for CSMA-Based MAC Protocol for Industrial IoT Applications -- Cesaro Sequences and Cesaro Hereditary Automata -- Development of Risk Controlling Mechanism and Tools for Agile Projects in Telecommunications -- Investment Attractiveness of the Telecommunications Economic Sector During the Coronavirus Pandemic -- Modern Digital Technologies and Telecommunications Mechanisms in the Implementation of Socio-Economic Policy at the Local and Regional Level -- The Concept of "Smart Cities": Prospects for the Telecommunications Business and the Current Trend in the Development of Modern Society -- Telecommunications Techniques in the Healthcare Development: Foreign Experience and Russian Realities -- Building a Platform-Type Business Model to Form an Omnichannel Integration in the Telecommunications Industry -- Transformation of Online Consumer Behavior Under the Influence of the Pandemic and the Development of Telecommunications -- Fiber-Optical Communication Line with a System for Compensation of Radiation-Induced Losses During the Transmission of Information -- Dynamic Range Improvement of Broad-band Analog Fiber Optic Links with Special Lithium Niobate Integrated Optical Modulators -- Reliability and Lifetime Estimations for Field-Aged Optical Cable -- Digital Twin-Based Research on Fiber Optic Current Sensor Behavior and Stability -- Self-Organized Biomolecular Films as A New Material for Nano-Telecommunication Devices -- Optical Loss Control in Lithium Niobate Waveguides via Direct Laser Modification of Covered Titanium Film -- Analysis of Mixed Strategies for P2P Streaming Systems -- Simulating UAV's Movement for Servicing User Groups with a Reference Point in Wireless Networks -- Service-based EMF Monitoring in EMF RATEL system -- Interaction between User and UAV with Unreliable Location Information.

| Sommario/riassunto | This book constitutes the joint refereed proceedings of the 20th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networks and Systems, NEW2AN 2020, and the 13th Conference on Internet of Things and Smart Spaces, ruSMART 2020. The conference was held virtually due to the COVID-19 pandemic. The 79 revised full papers presented were carefully reviewed and selected from 225 submissions. The papers of NEW2AN address various aspects of next-generation data networks, with special attention to advanced wireless networking and applications. In particular, they deal with novel and innovative approaches to performance and efficiency analysis of 5G and beyond systems, employed game-theoretical formulations, advanced queuing theory, and stochastic geometry, while also covering the Internet of Things, cyber security, optics, signal processing, as well as business aspects. ruSMART 2020, provides a forum for academic and industrial researchers to discuss new ideas and trends in the emerging areas. |