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Collana	Computer Communication Networks and Telecommunications, , 2945-9184 ; ; 12563
Disciplina	004.6
Soggetti	Computer networks Application software Computer science - Mathematics Computer systems Data structures (Computer science) Information theory Computer Communication Networks Computer and Information Systems Applications Mathematics of Computing Computer System Implementation Data Structures and Information Theory
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Computer and Communication Networks -- Power domain NOMA without SIC in Downlink CSS-based LoRa Networks -- Simulation-based Analysis of Mobility Models for Wireless UAV-to-X Networks -- Structures and deployments of a flying network using tethered multicopters for emergencies -- Multipath Redundant Network Protocol without Delivery Guarantee -- Modelling Multi-connectivity in 5G NR Systems with Mixed Unicast and Multicast Traffic -- IoT traffic prediction with Neural networks learning based on SDN infrastructure -- Transmission latency analysis in Cloud-RAN -- Resource Queuing

System with Preemptive Priority for Performance Analysis of 5G NR Systems -- Redundant Servicing of a Flow of Heterogeneous Requests Critical to the Total Waiting Time During the Multi-path Passage of a Sequence of Info-communication Nodes -- Agriculture management based on LoRa Edge Computing System -- Dynamic Algorithm for Building Future Networks Based on Intelligent Core Network -- Methods and Models for Using Heterogeneous Gateways in the Mesh LPWANs -- Research on Using the AODV Protocol for A LoRa Mesh Network -- On the Algebraic theory of Loop Free Routing -- Queueing system with two unreliable servers and backup server as a model of hybrid communication system -- Flexible Random Early Detection Algorithm for Queue Management in Routers -- Architecture and functionality of the collective operations subnet of the Angara interconnect -- The Model of WBAN Data Acquisition Network Based on UFP -- Development and Investigation of model network IMT2020 with the use of MEC and Voice Assistant technologies -- On overall measure of non-classicality of N-level quantum system and its universality in the large N limit -- Analytical Modeling of Distributed Systems -- Queues with Markovian Arrivals, Phase type Services, Breakdowns, and Repairs -- Statistical Analysis of the End-to-End Delay of Packet Transfers in a Peer-to-Peer Network -- Multidimensional Central Limit Theorem of the Multiclass M/M/1/1 Retrial Queue -- A Retrial Queueing System in which Server Searches to Accumulate Customers for Optimal Bulk Serving -- Approximate Analysis of the Queuing System with Heterogeneous Servers and N-Policy -- Analysis of a Resource-Based Queue with the Parallel Service and Renewal Arrivals -- Two-Phase Resource Queueing System with Requests Duplication and Renewal Arrival Process -- Deep neural networks for emotion recognition -- A simulation approach to reliability assessment of a redundant system with arbitrary input distributions -- Problem of overbooking for a case of a random environment existence -- Optimization of signals processing in nodes of sensor network with energy harvesting and expenditure for admission and transmission -- The Analysis of Resource Sharing for Heterogenous Traffic Streams over 3GPP LTE with NB-IoT Functionality -- Performance Measures of Emergency Services in Case of Overload -- Evaluation and prediction of an optimal control in a processor sharing queueing system with heterogeneous servers -- On exponential convergence of dynamic queueing network and its applications -- Leader Nodes in Communities for Information Spreading -- Sensitivity Analysis of a k-out-of-n:F System Characteristics to Shapes of Input Distribution -- Prioritized Service of URLLC Traffic in Industrial Deployments of 5G NR Systems -- Milestone Developments in Quantum Information and No-Go Theorems -- Practical application of the multi-model approach in the study of complex systems -- Three Approaches in the Study of Recurrent Markovian and Semi-Markovian Processes -- The remaining busy time in a retrial system with unreliable servers -- Diffusion Approximation for Multiserver Retrial Queue with Two-Way Communication -- On A Single Server Queueing Inventory System -- Rare-event simulation for the hitting time of Gaussian processes -- A Queueing Inventory System with Two Channels of Service -- The Analytical Model of Six-Dimensional Linear Dynamic Systems With Arbitrary Piecewise-Constant Parameters -- Evaluation of the end-to-end Delay of a Multiphase Queuing System Using Artificial Neural Networks -- Model of Navigation and Control System of an Airborne Mobile Station -- Modeling D2D-enhanced IoT connectivity: An approach through the simplified analytical framework -- Optimization of SPTA acquisition for a distributed communication network of weather stations --

Distributed Systems Applications -- Crystal-Ball and Magic Wand Combined: Predicting Situations and Making them Happen -- Architectural ML Framework for IoT Services Delivery Based on Microservices -- Applying Machine Learning to Data from a Structured Database in a Research Institute to Support Decision Making -- Generation of metadata for network control.

Sommario/riassunto

This book constitutes the refereed post-conference proceedings of the 23rd International Conference on Distributed and Computer and Communication Networks, DCCN 2020, held in Moscow, Russia, in September 2020. The 54 revised full papers and 1 revised short paper were carefully reviewed and selected from 167 submissions. The papers cover the following topics: computer and communication networks; analytical modeling of distributed systems; and distributed systems applications.