

Vladimir M. Vishnevskiy
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Dmitry V. Kozyrev (Eds.)

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Distributed Computer and Communication Networks

24th International Conference, DCCN 2021
Moscow, Russia, September 20–24, 2021
Revised Selected Papers

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Preface

This volume contains a collection of revised selected full-text papers presented at the 24th International Conference on Distributed Computer and Communication Networks (DCCN 2021), held in Moscow, Russia, during September 20–24, 2021.

The conference is a continuation of the traditional international conferences of the DCCN series, which have taken place in Sofia, Bulgaria (1995, 2005, 2006, 2008, 2009, 2014); Tel Aviv, Israel (1996, 1997, 1999, 2001); and Moscow, Russia (1998, 2000, 2003, 2007, 2010, 2011, 2013, 2015, 2016, 2017, 2018, 2019, 2020) in the last 24 years. The main idea of the conference is to provide a platform and forum for researchers and developers from academia and industry from various countries working in the area of theory and applications of distributed computer and communication networks, mathematical modeling, and methods of control and optimization of distributed systems, by offering them a unique opportunity to share their views, discuss prospective developments, and pursue collaboration in this area. The content of this volume is related to the following subjects:

1. Communication networks, algorithms, and protocols
2. Wireless and mobile networks
3. Computer and telecommunication networks control and management
4. Performance analysis, QoS/QoE evaluation, and network efficiency
5. Analytical modeling and simulation of communication systems
6. Evolution of wireless networks toward 5G
7. Internet of Things and fog computing
8. Cloud computing, distributed systems, and parallel systems
9. Machine learning, big data, and artificial intelligence
10. Probabilistic and statistical models in information systems
11. Queuing theory and reliability theory applications
12. High-altitude telecommunications platforms
13. Security in infocommunication systems

The DCCN 2021 conference gathered 151 submissions from authors from 26 different countries. From these, 105 high-quality papers in English were accepted and presented during the conference. The current volume contains 35 extended papers which were recommended by session chairs and selected by the Program Committee for the Springer post-proceedings. Thus, the acceptance rate is 33.3%.

All the papers selected for the post-proceedings volume are given in the form presented by the authors. These papers are of interest to everyone working in the field of computer and communication networks.

We thank all the authors for their interest in DCCN, the members of the Program Committee for their contributions, and the reviewers for their peer-reviewing efforts.

September 2021

Vladimir M. Vishnevskiy
Konstantin E. Samouylov
Dmitry V. Kozyrev

Organization

DCCN 2021 was jointly organized by the Russian Academy of Sciences (RAS), the V.A. Trapeznikov Institute of Control Sciences of RAS (ICS RAS), the Peoples' Friendship University of Russia (RUDN University), the National Research Tomsk State University, and the Institute of Information and Communication Technologies of the Bulgarian Academy of Sciences (IICT BAS).

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Contents

Computer and Communication Networks

Multi Task Multi-UAV Computation Offloading Enabled Mobile Edge Computing Systems	3
<i>Abbas Alzaghir and Andrey Koucheryavy</i>	
The Increasing of Resource Sharing Efficiency in Network Slicing Implementation	18
<i>Mikhail S. Stepanov, Sergey N. Stepanov, Umer Andrabi, Dmitriy Petrov, and Juvent Ndayikunda</i>	
Analysis of Non-preemptive Scheduling for 5G Network Model Within Slicing Framework	36
<i>Yves Adou, Ekaterina Markova, and A. A. Chursin</i>	
A Hybrid Clustering-Based Routing Protocol for VANET Using k-means and Cuckoo Search Algorithm	48
<i>Amani A. Sabbagh and Maxim V. Shcherbakov</i>	
OpenFlow-based Software-Defined Networking Queue Model	62
<i>Vyacheslav Kartashevskiy and Marina Buranova</i>	
Hybrid MCDM for Cloud Services: AHP(blocks) & Entropy, TOPSIS & MOORA (methodology Review and Advances)	77
<i>Iliyan Petrov</i>	
Hybrid MCDM for Cloud Services: AHP(blocks) & Entropy, TOPSIS & MOORA (Case Study with QoS and QoE Criteria)	92
<i>Iliyan Petrov</i>	
Ultra-Dense Internet of Things Model Network	111
<i>Anastasia Marochkina, Alexander Paramonov, and Tatiana M. Tatarnikova</i>	
Integrity, Resilience and Security of 5G Transport Networks Based on SDN/NFV Technologies	123
<i>I. Buzhin, M. Bessonov, Y. Mironov, and M. P. Farkhadov</i>	
Algorithm of Finding All Maximal Induced Bicliques of Hypergraph	136
<i>Aleksandr Soldatenko and Daria Semenova</i>	

Customer Experience Model for Communication Service Provider Digital Twin	148
<i>Vladimir Akishin, Sergey Kislyakov, and Alexander Sotnikov</i>	
Analytical Modeling of Distributed Systems	
Matrix-Geometric Solutions for the Models of Perishable Inventory Systems with a Constant Retrial Rate	163
<i>Agassi Melikov, Mamed Shahmaliyev, and János Sztrik</i>	
Analysis of Two-Way Communication Retrial Queuing Systems with Non-reliable Server, Impatient Customers to the Orbit and Blocking Using Simulation	174
<i>Ádám Tóth, János Sztrik, Tamás Bérczes, and Attila Kuki</i>	
On a Queue with Marked Compound Poisson Input and Exponentially Distributed Batch Service	186
<i>K. A. K. Al Maqbali, V. C. Joshua, and Achyutha Krishnamoorthy</i>	
A Two Server Queueing Inventory Model with Two Types of Customers and a Dedicated Server	201
<i>Nisha Mathew, V. C. Joshua, and Achyutha Krishnamoorthy</i>	
On Convergence of Tabu-Enhanced Quantum Annealing Algorithm	214
<i>A. S. Rumyantsev, D. Pastorello, E. Blanzieri, and V. Cavecchia</i>	
Semi-markov Resource Flow as a Bit-Level Model of Traffic	220
<i>Anatoly Nazarov, Alexander Moiseev, Ivan Lapatin, Svetlana Paul, Olga Lizyura, Pavel Pristupa, Xi Peng, Li Chen, and Bo Bai</i>	
Asymptotic Diffusion Analysis of an Retrial Queueing System M/M/1 with Impatient Calls	233
<i>Elena Danilyuk, Svetlana Moiseeva, and Anatoly Nazarov</i>	
Sufficient Stability Conditions for a Multi-orbit Retrial System with General Retrials Under Classical Retrial Policy	247
<i>Ruslana Nekrasova</i>	
Analysis of the Probabilistic and Cost Characteristics of the Queueing Network with a Control Queue and Quarantine in Systems and Negative Requests by Means of Successive Approximations	259
<i>Katsiaryna Kosarava and Dmitry Kopats</i>	
The Automata-Based Model for Control of Large Distributed Systems	272
<i>Yu. S. Zatuliveter and E. A. Fishchenko</i>	

Information Spreading with Application to Non-homogeneous Evolving Networks	284
<i>Natalia M. Markovich and Maksim S. Ryzhov</i>	
Machine Learning for Recognition Learning of Control Systems for Autonomous Unmanned Underwater Vehicles of Events in Hostile Environments	293
<i>Vyacheslav Abrosimov and Ekaterina Panteley</i>	
Statistical Model of Graph Structure Based on “VKontakte” Social Network ...	307
<i>A. A. Kislitsyn and Yu. N. Orlov</i>	
Response Time Estimate for a Fork-Join System with Pareto Distributed Service Time as a Model of a Cloud Computing System Using Neural Networks	318
<i>A. V. Gorbunova and A. V. Lebedev</i>	
Approximation of the Two-Dimensional Output Process of a Retrieval Queue with MMPP Input	333
<i>Alexey Blaginin and Ivan Lapatin</i>	
Method of Analyzing the Availability Factor in a Mesh Network	346
<i>Alexander Dageev, Van Dai Pham, Ruslan Kirichek, Olga Afanaseva, and Ekaterina Yakovleva</i>	
The Importance of Conference Proceedings in Research Evaluation: A Methodology for Assessing Conference Impact	359
<i>Dmitry Kochetkov, Aliaksandr Birukou, and Anna Ermolayeva</i>	
Cardiac Arrhythmia Disorders Detection with Deep Learning Models	371
<i>Eugene Yu. Shchetinin, Leonid A. Sevastianov, Anastasia V. Demidova, and Anastasia G. Glushkova</i>	
Distributed Systems Applications	
Autonomous Infrared Guided Landing System for Unmanned Aerial Vehicles	387
<i>Mainak Mondal, S. V. Shidlovskiy, D. V. Shashev, and Mikhail Okunsky</i>	
Distributed Computing of R Applications Using RBOINC Package with Applications to Parallel Discrete Event Simulation	396
<i>S. N. Astafiev and A. S. Rumyantsev</i>	

Algorithm for Calculating and Using the Characteristics of a Binary Image Intended for Implementation on RCE	408
<i>A. S. Bondarchuk, D. V. Shashev, and S. V. Shidlovskiy</i>	
Evaluation of Trust in Computer-Computed Results	420
<i>Alexander Grusho, Nikolai Grusho, Michael Zabezhailo, and Elena Timonina</i>	
Approaches for Creating a Digital Ecosystem of an Industrial Holding	433
<i>A. E. Tyulin, A. A. Chursin, A. V. Yudin, and P. Yu. Grosheva</i>	
Intelligent Systems for Optimal Production Control of Unique Products	445
<i>A. E. Tyulin, A. A. Chursin, I. N. Dubina, A. V. Yudin, and P. Yu. Grosheva</i>	
Author Index	463