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Preface

This volume contains a collection of revised selected full-text papers presented at the 19th International Conference on Distributed Computer and Communication Networks (DCCN 2016), held in Moscow, Russia, November 21–25, 2016.

The conference is a continuation of traditional international conferences of the DCCN series, which took place in Bulgaria (Sofia, 1995, 2005, 2006, 2008, 2009, 2014), Israel (Tel Aviv, 1996, 1997, 1999, 2001), and Russia (Moscow, 1998, 2000, 2003, 2007, 2010, 2011, 2013, 2015) in the past 19 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, methods of control and optimization of distributed systems, by offering them a unique opportunity to share their views, discuss prospective developments, and pursue collaborations in this area. The content of this volume is related to the following subjects:

1. Computer and communication networks architecture optimization
2. Control in computer and communication networks
3. Performance and QoS/QoE evaluation in wireless networks
4. Analytical modeling and simulation of next-generation communications systems
5. Queuing theory and reliability theory applications in computer networks
6. Wireless 4G/5G networks, cm- and mm-wave radio technologies
7. RFID technology and its application in intellectual transportation networks
8. Internet of Things, wearables, and applications of distributed information systems
9. Probabilistic and statistical models in information systems
10. Mathematical modeling of high-tech systems
11. Mathematical modeling and control problems
12. Distributed and cloud computing systems, big data analytics

The DCCN 2016 conference gathered 208 submissions from authors from 20 different countries. From these, 141 high-quality papers in English were accepted and presented during the conference, 56 of which were recommended by session chairs and selected by the Program Committee for the Springer proceedings.

All the papers selected for the proceedings 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.

November 2016

Vladimir M. Vishnevskiy
Konstantin E. Samouylov
Organization

DCCN 2016 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), the National Research Tomsk State University, and the Institute of Information and Communication Technologies of Bulgarian Academy of Sciences (IICT BAS).

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Contents

Computer and Communication Networks

Enhanced C-RAN Architecture Supporting SDN and NFV Functionalities for D2D Communications ......................................................... 3
  Antonino Orsino, Giuseppe Araniti, Li Wang, and Antonio Iera

On Internet of Things Programming Models .................................. 13
  Dmitry Namiot and Manfred Sneps-Sneppe

A Trial of Yoking-Proof Protocol in RFID-based Smart-Home Environment. . 25
  Anton Prudanov, Sergey Tkachev, Nikolay Golos, Pavel Masek,
  Jiri Hosek, Radek Fujiak, Krystof Zeman, Aleksandr Ometov,
  Sergey Bezzateev, Natalia Voloshina, Sergey Andreev, and Jiri Misurec

Analysis and Simulation of UHF RFID Vehicle Identification System . . . . 35
  Vladimir Vishnevskiy, Andrey Larionov, and Roman Ivanov

Modeling and Performance Comparison of Caching Strategies for Popular Contents in Internet ......................................................... 47
  Natalia M. Markovich, Vladimir Khrenov, and Udo R. Krieger

Transient Change Detection in Mixed Count and Continuous Random Data and the Cyber-Physical Systems Security .......................... 57
  Igor Nikiforov

Performance Modeling of Finite-Source Cognitive Radio Networks Using Simulation ................................................................. 64
  Janos Sztrik, Tamás Bérczes, Hamza Nemouchi, and Agassi Melikov

Performance Measures and Optimization of Queueing System with Reserve Server ................................................................. 74
  Valentina Klimenok, Alexander Dudin, Vladimir Vishnevskiy,
  Vladimir Shumchenya, and Achyutha Krishnamoorthy

Reliability of a k-out-of-n System with a Repair Facility – Essential and Inessential Services ......................................................... 89
  M.K. Sathian, Viswanath C. Narayanan, Vladimir Vishnevskiy,
  and Achyutha Krishnamoorthy

Tractable Distance Distribution Approximations for Hardcore Processes . . . 98
  Pavel Abaev, Yulia Gaidamaka, Konstantin Samouylov,
  and Sergey Shorgin
The Total Capacity of Customers in the Infinite-Server Queue
with MMPP Arrivals ......................................................... 110
Ekaterina Lisovskaya, Svetlana Moiseeva, and Michele Pagano

On the Queue Length in the Discrete Cyclic-Waiting System
of Geo/G/1 Type ............................................................ 121
Laszlo Lakatos

Optimal Control of $M(t)/M/K$ Queues with Homogeneous
and Heterogeneous Servers ............................................ 132
Dmitry Efrosinin and Michael Feichtenschlager

Algorithmic and Software Tools for Optimal Design of New
Generation Computer Networks ....................................... 145
Yuriy Zaychenko and Helen Zaychenko

One Problem of the Risk Control ..................................... 162
A.M. Andronov and T. Jurkina

Analysis of the Throughput in Selective Mode of Transport Protocol .... 168
Vladimir Kokshenev, Pavel Mikheev, Sergey Suschenko,
and Roman Tkachyov

A Cyclic Queueing System with Priority Customers and T-Strategy
of Service ................................................................. 182
Anatoly Nazarov and Svetlana Paul

Comparative Analysis of Reliability Prediction Models for a Distributed
Radio Direction Finding Telecommunication System ................ 194
Dmitry Aminev, Alexander Zhurkov, Sergey Polesskiy, Vladimir Kulygin,
and Dmitry Kozyrev

Low-Priority Queue and Server’s Steady-State Existence in a Tandem
Under Prolongable Cyclic Service .................................... 210
Victor Kocheganov and Andrei Zorine

On Regenerative Envelopes for Cluster Model Simulation ............ 222
Evsey Morozov, Irina Peshkova, and Alexander Rumyantsev

Two Asymptotic Conditions in Queue with MMPP Arrivals and Feedback .. 231
Agassi Melikov, Lubov Zadiranova, and Alexander Moiseev

Applications of Augmented Reality Traffic and Quality Requirements
Study and Modeling ....................................................... 241
A. Koucheryavy, M. Makolkina, and A. Paramonov

Rate of Convergence to Stationary Distribution for Unreliable
Jackson-Type Queueing Network with Dynamic Routing ............ 253
Elmira Yu. Kalimulina
On the Method of Group Polling upon the Independent Activity of Sensors in Unsynchronized Wireless Monitoring Networks ........................................ 266
Alexander Shtokhov, Ivan Tsitovich, and Stoyan Poryazov

A Noising Method for the Identification of the Stochastic Structure of Information Flows ................................................................. 279
Andrey Gorshenin and Victor Korolev

Efficiency of Redundant Multipath Transmission of Requests Through the Network to Destination Servers .............................................. 290
V.A. Bogatyrev and S.A. Parshutina

The Fault-Tolerant Structure of Multilevel Secure Access to the Resources of the Public Network ......................................................... 302
Vladimir Kolomoitcev and V.A. Bogatyrev

Formation of the Instantaneous Information Security Audit Concept .......... 314
I.I. Livshitz, D.V. Yurkin, and A.A. Minyaev

Computer Simulation of Average Channel Access Delay in Cognitive Radio Network ................................................................. 325
A.Yu. Grebeshkov, A.V. Zuev, and D.S. Kiporov

Efficiency of Redundant Service with Destruction of Expired and Irrelevant Request Copies in Real-Time Clusters ...................................... 337
V.A. Bogatyrev, S.A. Parshutina, N.A. Poptcova, and A.V. Bogatyrev

Stationary Waiting Time Distribution in $G|M|n|r$ with Random Renovation Policy ................................................................. 349
Ivan Zaryadov, Rostislav Razumchik, and Tatiana Milovanova

Analysis of the Packet Path Lengths in the Swarms for Flying Ubiquitous Sensor Networks ......................................................... 361
Anastasia Vybornova, Alexander Paramonov, and Andrey Koucheryavy

Properties of Fluid Limit for Closed Queueing Network with Two Multi-servers ................................................................. 369
Svetlana Anulova

On Strong Bounds of Rate of Convergence for Regenerative Processes ...... 381
Galina Zverkina

Convergence Evaluation of Adaptation to Losses: The Case of Subscription Notification Delivery to Mobile Users in Smart Spaces ............... 394
Dmitry Korzun, Andrey Vdovenko, and Olga Bogoavlenskaia

Sojourn Time Analysis for Processor Sharing Loss Queuing System with Service Interruptions and MAP Arrivals ............................................. 406
Konstantin Samouylov, Eduard Sopin, and Irina Gudkova
The Estimation of Probability Characteristics of Cloud Computing Systems with Splitting of Requests .................................................. 418
  Anastasia Gorbunova, Ivan Zaryadov, Sergey Matyushenko, and Eduard Sopin

Simulation of Medical Sensor Nanonetwork Applications Traffic .............. 430
  Rustam Pirmagomedov, Ivan Hudoev, and Daria Shangina

Long-Range Data Transmission on Flying Ubiquitous Sensor Networks (FUSN) by Using LPWAN Protocols .................................................. 442
  Ruslan Kirichek and Vyacheslav Kulik

Hardware-Software Simulation Complex for FPGA-Prototyping of Fault-Tolerant Computing Systems .................................................. 454
  Oleg Brekhov and Alexander Klimenko

Mathematical Modeling and Computation

Numerical and Analytical Modeling of Guided Modes of a Planar Gradient Waveguide .................................................. 471
  Edik Ayrjan, Migran Gevorkyan, Dmitry Kulyabov, Konstantin Lovetskiy, Nikolai Nikolaev, Anton Sebastianov, Leonid Sebastianov, and Eugeny Laneev

Diagram Representation for the Stochastization of Single-Step Processes ...... 483
  Ekaterina G. Eferina, Michal Hnatich, Anna V. Korolkova, Dmitry S. Kulyabov, Leonid A. Sebastianov, and Tatiana R. Velieva

Construction and Analysis of Nondeterministic Models of Population Dynamics .................................................. 498
  A.V. Demidova, Olga Druzhinina, Milojica Jacimovic, and Olga Masina

Model of Diatomic Homonuclear Molecule Scattering by Atom or Barriers .... 511
  A.A. Gusev, O. Chuluunbaatar, S.I. Vinitsky, L.L. Hai, V.L. Derbov, and P.M. Krassovitskiy

The Coupled-Channel Method for Modelling Quantum Transmission of Composite Systems .................................................. 525
  S.I. Vinitsky, A.A. Gusev, O. Chuluunbaatar, A. Gózdź, and V.L. Derbov

The Stochastic Processes Generation in OpenModelica .................................. 538
  Migran Gevorkyan, Michal Hnatich, Ivan M. Gostev, A.V. Demidova, Anna V. Korolkova, Dmitry S. Kulyabov, and Leonid A. Sebastianov
Metric Analysis as a Tool for Interpolating Multivariate Functions in the Case of an Information Lack

Alexander Kryanev, Gleb Lukin, and David Udumyan

Systems of Differential Equations of Infinite Order with Small Parameter and Countable Markov Chains

Galina Bolotova, S.A. Vasilyev, and Dmitry N. Udin

Applying OpenCL Technology for Modelling Seismic Processes Using Grid-Characteristic Methods

Nikolay Khokhlov, Andrey Ivanov, Michael Zhdanov, Igor Petrov, and Evgeny Ryabinkin

Linear Approach for Mathematical Modelling as a Tool for Efficient Portfolio Selection

Alexander Kryanev, Darya Sliva, and Andrey Sinitsin

Mathematical Modeling of Smoothly-Irregular Integrated-Optical Waveguide and Mathematical Synthesis of Waveguide Luneburg Lens

Edik Ayrjan, Genin Dashitsyrenov, Konstantin Lovetskiy, Nikolai Nikolaev, Anton Sevastianov, Leonid Sevastianov, and Eugeny Laneev

Damping Problem for Multidimensional Control System with Delays

A.S. Adkhamova and A.L. Skubachevskii

Nonclassical Hamilton’s Actions and the Numerical Performance of Variational Methods for Some Dissipative Problems

Vladimir Savchin and Svetlana Budochkina

Modeling of Spinning Sphere Motion in Shear Flow of Viscous Fluid

Yuri P. Rybakov

Fast Two-Dimensional Smoothing with Discrete Cosine Transform

Pavel Lyubin and Eugeny Shchetinin

Cluster Method of Description of Information System Data Model Based on Multidimensional Approach

Maxim Fomin

Author Index