

Preface

This volume contains a collection of revised selected full papers presented at the 20th International Conference on Distributed Computer and Communication Networks (DCCN2017), held in Moscow, Russia, September 25–29, 2017.

The conference constituted a continuation of the traditional international conferences of the DCCN series, which have taken 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, 2016) in the last 20 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 as well as discuss developments and pursue collaboration in this area. The content of this volume is related to the following subjects:

1. Computer networks architecture and topology: control and management, design, optimization, routing, resource allocation
2. Analytical modeling and simulation, performance, and QoS evaluation of information communication systems
3. Centimeter and millimeter wave wireless network technologies: local networks and 4G/5G cellular networks
4. RFID and sensor networks
5. Distributed information systems applications: Internet of Things, Big Data, Intelligent Transport Systems
6. Distributed systems and cloud computing, software-defined networks, virtualization
7. Stochastic and statistical methods in modeling of information systems
8. Queueing theory and reliability theory in computer network applications
9. Unmanned aircrafts and high-altitude platform stations (HAPS): control, communication, applications

The DCCN 2017 conference gathered 176 submissions from authors from 15 different countries. From these, 132 high-quality papers in English were accepted and presented during the conference, 39 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.

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