

# APTP+MS'2018

## 12<sup>th</sup> International Workshop on Applied Problems in Theory of Probabilities and Mathematical Statistics (Summer Session)

co-located with

2<sup>nd</sup> International School on Enabling Technologies, Applications, and Methods for Emerging 5G Systems

22 – 27 October 2018

IST, Lisbon, Portugal

12<sup>th</sup> International Workshop on Applied Problems in Theory of Probabilities and Mathematical Statistics - APTP+MS'2018 (Summer Session) is conducted jointly by IST - University of Lisbon (Portugal), Peoples' Friendship University of Russia - RUDN University (Russia), and Federal Research Centre "Computer Science and Control" of the Russian Academy of Sciences (Russia).

### Scope

The Workshop aims to discuss contemporary issues of applied probability theory, stochastic processes, mathematical statistics, stochastic analysis, queuing theory in their application to the performance analysis and quality of service in 5G networks. Nowadays, one can see that wireless solutions have moved beyond their traditional areas of application, and one can talk about a space where users can interact with various technologies services. As a consequence, the methods of the applied probability theory and mathematical statistics for the effective estimation of the wireless networks performance parameters have received much attention in recent years and have become a key aspect of application development. Further development in this area creates opportunities for the development of theoretical foundations, new mathematical models and methods for the performance analysis of future wireless networks.

### Topics of interest include but are not limited to:

<ul style="list-style-type: none"><li>• Modelling of information systems by methods of the probability theory</li><li>• Modelling of information systems by methods of the theory of stochastic processes</li><li>• Applied queuing theory</li></ul>	<ul style="list-style-type: none"><li>• Discrete probabilistic models</li><li>• Probabilistic models for information security</li><li>• Multiservice networks and Admission Control</li><li>• Teletraffic theory</li></ul>	<ul style="list-style-type: none"><li>• Statistical methods for the analysis of information systems</li><li>• Network virtualization</li><li>• Networks in cloud architectures</li><li>• Network slicing</li><li>• Resource management</li></ul>
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### Paper submission

Researchers, academics, practitioners, and students interested in 5G wireless networks modelling and in the area of probability theory and stochastic theory are invited to submit paper (6 pages) according to the template (send a request to [aptpms2018@gmail.com](mailto:aptpms2018@gmail.com)). The Conference Proceedings will be published upon the beginning of the event. The papers of APTP+MS'2018 are listed in CEUR and SCOPUS.

### Important Dates

**Paper Submission:**  
August 31<sup>st</sup>, 2018

**Notification of Acceptance:**  
September 7<sup>th</sup>, 2018

**Author Registration:**  
September 21<sup>st</sup>, 2018

### Registration Fees

The conference registration fee includes proceedings, reception, lunches, coffee breaks and amounts to € 300.

### Organizing and Programme Committee

Luis M. Correia (IST - University of Lisbon, Portugal),  
Konstantin Samouylov (Peoples' Friendship University of Russia - RUDN University, Russia),  
Sergey Shorgin (Federal Research Centre "Computer Science and Control" of the Russian Academy of Sciences, Russia)

