

# Preface

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Session «Data Science» was held at the 3rd International Conference on Information Technology and Nanotechnology - 2017 (ITNT-2017) in Samara, Russia, April 25–27, 2017 (<http://ru.itnt-conf.org/itnt17ru/>). This volume contains the papers presented at this session, covering a wide variety of topics such as data mining, big data technologies and systems, machine learning, neural network technologies, data and knowledge representation, natural language processing.

The goal of the ITNT-2017 Conference was to discuss problems of fundamental and applied research in information technology and nanotechnology, including:

- Computer Optics;
- Diffractive Nanophotonics;
- Image Processing;
- Computer Vision;
- Mathematical Modeling;
- Data Science.

Scientists from Austria, Belarus, Bulgaria, Denmark, Germany, Great Britain, India, Iraq, Mexico, Moldova, Russia, Spain, USA, and Finland presented over 330 reports at the ITNT-2017 Conference.

The main proceedings of the conference will be published in *Procedia Engineering* (Elsevier BV). The proceedings of the seminar, not included in *Procedia Engineering*, were selected for this volume.

We are grateful to everybody who has contributed to the seminar and look forward to meeting you again at future events. Heartfelt thanks are due to all authors, reviewers and delegates. A special thank you is due to the team of organizers for making the seminar successful and this publication possible.

## Guest Editors

- Michael Sobolewski, Polish-Japanese Institute of IT, Poland.
- Sergey Popov, Image Processing Systems Institute - Branch of the Federal Scientific Research Centre "Crystallography and Photonics", Russian Academy of Sciences, Samara, Russia
- Denis Kudryashov, Samara National Research University, Samara, Russia

## Conference Organizers

- Samara National Research University
- Image Processing Systems Institute of RAS – Branch of the FSRC “Crystallography and Photonics” RAS
- Government of Samara Region
- Computer Technologies

## Chair

- Evgeniy Shakhmatov – Samara National Research University, Russia

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