Anton Rodomanov

Contact details

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Research interests

Optimization, Machine Learning, Bayesian Statistics.

Education

2015–2017	**MSc in Computer Science**, National Research University Higher School of Economics
2011–2015	**BSc in Computer Science**, Lomonosov Moscow State University

Publications

2016	**A Superlinearly-Convergent Proximal Newton-Type Method for the Optimization of Finite Sums** A. Rodomanov, D. Kropotov Proceedings of the 33rd International Conference on Machine Learning (ICML) [pdf] [supplementary] [poster] [slides]
2015	**A Newton-type Incremental Method with a Superlinear Convergence Rate** A. Rodomanov, D. Kropotov NIPS Workshop on Optimization for Machine Learning [pdf] [poster]
2014	**Putting MRFs on a Tensor Train** A. Novikov, A. Rodomanov, A. Osokin, D. Vetrov Proceedings of the 31st International Conference on Machine Learning (ICML) [pdf] [supplementary] [poster] [slides] [code]

Talks

06/2016	**A Superlinearly-Convergent Proximal Newton-Type Method for the Optimization of Finite Sums** International Conference on Machine Learning (ICML), New York, USA [slides]
06/2016	**Optimization Methods for Big Sums of Functions** Skoltech Deep Machine Intelligence Workshop, Moscow, Russia [slides]
05/2016	**Incremental Newton Method for Minimizing Big Sums of Functions** HSE Seminar on Machine Learning, Voronovo, Russia [slides]
03/2016	**Introduction to the Tensor Train Decomposition and Its Applications in Machine Learning**

HSE Seminar on Applied Linear Algebra, Moscow, Russia [slides]

02/2016 **Proximal Incremental Newton Method**
Seminar on Bayesian Methods in Machine Learning, Moscow, Russia [slides]

08/2015 **Probabilistic Graphical Models: a Tensorial Perspective**
International Conference on Matrix Methods in Mathematics and Applications (MMMA), Skoltech, Moscow, Russia [slides]

06/2015 **A Fast Incremental Optimization Method with a Superlinear Rate of Convergence**
Summer School on Control, Information and Optimization, Solnechnogorsk, Russia [slides]

05/2014 **Low-Rank Representation of MRF Energy by means of the TT-Format**
SIAM Conference in Imaging Science (SIAM-IS), Hong-Kong, China [slides]

Posters

06/2016 **A Superlinearly-Convergent Proximal Newton-Type Method for the Optimization of Finite Sums**
International Conference on Machine Learning (ICML), New York, USA [poster]

12/2015 **A Newton-type Incremental Method with a Superlinear Convergence Rate**
NIPS Workshop on Optimization for Machine Learning, Montreal, Canada [poster]

07/2015 **A Fast Incremental Optimization Method with a Superlinear Rate of Convergence**
Microsoft Research PhD Summer School, Cambridge, United Kingdom [poster]

06/2014 **Putting MRFs on a Tensor Train**
International Conference on Machine Learning (ICML), Beijing, China [poster]

Awards

2015 **Winner (1st place) of a faculty-wide comptetition of theses**
Lomonosov Moscow State University

Teaching experience

{02–05}/2016 **TA in Optimization Methods in Machine Learning**, Yandex School of Data Analysis
{11–12}/2015 **TA in Machine Learning**, Skolkovo Institute of Science and Technology
{02–05}/2015 **TA in Optimization Methods in Machine Learning**, Yandex School of Data Analysis

Computer skills

Languages	**Python**, **C/C++**, **MATLAB**
Version control	**Git**, **GitHub**, **Bitbucket**, **SVN**
OSs	**Linux**, **Windows**, **Mac OS X**
Other	**Amazon EC2**, **LaTeX**

Languages

Russian	**Native**
English	**Advanced**