Anton Rodomanov

Contact details

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Education

2017 – 2021	PhD in Computer Science, National Research University Higher School of Economics
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 (assigned 3rd level funding by HSE Academic Fund Programme in 2017) A. Rodomanov, D. Kropotov
	Proceedings of the 33rd International Conference on Machine Learning (ICML) [pdf] [supplementary] [poster] [slides] [code]
	Primal-Dual Method for Searching Equilibrium in Hierarchical Congestion Population Games
2016	P. Dvurechensky, A. Gasnikov, E. Gasnikova, S. Matsievsky, A. Rodomanov, I. Usik Proceedings of the 9th International Conference on Discrete Optimization and Operations Research and Scientific School (DOOR)
2015	[pdf] A Newton-type Incremental Method with a Superlinear Convergence Rate A. Rodomanov, D. Kropotov NIPS Workshop on Optimization for Machine Learning (Optimization@NIPS) [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

	Incremental Newton Method for Big Sums of Functions
10/2016	Seminar on Stochastic Analysis in Problems, IUM, Moscow, Russia
	[slides (in Russian)] [video (in Russian)]
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] [video]

06/2016	Optimization Methods for Big Sums of Functions
	Deep Machine Intelligence Workshop, Skoltech, Moscow, Russia [slides]
05/2016	Incremental Newton Method for Minimizing Big Sums of Functions
	HSE off-site seminar on Machine Learning, Voronovo, Russia [slides]
03/2016	Introduction to the Tensor Train Decomposition and Its Applications in Machine
	Learning
	Seminar on Applied Linear Algebra, HSE, Moscow, Russia [slides]
02/2016	Proximal Incremental Newton Method
	Seminar on Bayesian Methods in Machine Learning, MSU, Moscow [slides]
00/0015	Probabilistic Graphical Models: a Tensorial Perspective
08/2015	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
00/2015	Summer School on Control, Information and Optimization, Solnechnogorsk, Russia [slides]
10/2014	Markov Chains and Spectral Theory
	Seminar on Bayesian Methods in Machine Learning, MSU, Moscow, Russia [slides (in Russian)]
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]
04/2014	Fast Gradient Method
	Seminar on Bayesian Methods in Machine Learning, MSU, Moscow, Russia [slides (in Russian)]
10/2013	TT-Decomposition for Compact Representation of Tensors
	Seminar on Bayesian Methods in Machine Learning, MSU, Moscow, Russia [slides (in Russian)]

Posters

06/2016	A Superlinearly-Convergent Proximal Newton-Type Method for the Optimization of
00/2010	Finite Sums
	International Conference on Machine Learning (ICML), New York, USA [poster]
10/0015	A Newton-type Incremental Method with a Superlinear Convergence Rate
12/2015	NIPS Workshop on Optimization for Machine Learning (Optimization@NIPS), Montreal, Canada
	[poster]
07/0015	A Fast Incremental Optimization Method with a Superlinear Rate of Convergence
07/2015	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

2017	Increased State Academic Scholarship for research and academic achievements
2016	Golden HSE Award in the Silver Nestling nomination
2016	Personal Scholarship of the Lukoil Fund
2016	Ilya Segalovich Scholarship (from Yandex)
2015	Winner of a faculty-wide comptetition of theses (1st place) at the Lomonosov Moscow
	State University

Participation in grants

2017–2019 RSF grant 17-11-01027 on Algorithmic optimization for problems with large number of variables

Project head: Yurii Nesterov.

Work experience

2017–now Junior Researcher at the International Laboratory of Deep Learning and Bayesian Methods of

the National Research University Higher School of Economics

Teaching experience

{09-12}/2017	Optimization Methods in Machine Learning at the Faculty of Computational Mathemat-
109-125/2011	ics and Cybernetics, Moscow State University and at the Department of Control and Applied
	Mathematics, Moscow Institute of Physics and Technology
	Seminars and practical sessions. Lecturer: Dmitry Kropotov.
(02.05)/2017	Optimization Methods in Machine Learning at the Yandex School of Data Analysis
$\{02-05\}/2017$	Seminars and practical sessions. Lecturer: Dmitry Kropotov.
{01-03}/2017	Optimization Methods at the Faculty of Computer Science, Higher School of Economics
{01-05}/2017	Seminars and practical sessions. Lecturer: Dmitry Kropotov.
	Optimization Methods in Machine Learning at the Faculty of Computational Mathematics
$\{09-12\}/2016$	and Cybernetics, Moscow State University
	Seminars and practical sessions. Lecturer: Dmitry Kropotov.
[02.05]/2016	Optimization Methods in Machine Learning at the Yandex School of Data Analysis
$\{02-05\}/2016$	Seminars and practical sessions. Lecturer: Dmitry Kropotov.
(11 19) /9015	Machine Learning at the Skolkovo Institute of Science and Technology
$\{11-12\}/2015$	Seminars and practical sessions. Lecturer: Victor Kitov.
(00 OF) /001F	Optimization Methods in Machine Learning at the Yandex School of Data Analysis
$\{02-05\}/2015$	Seminars and practical sessions. Lecturer: Dmitry Kropotov.

Languages

Russian Native

English Advanced (TOEFL iBT: 97/120, August 2017)