Daniil Kononenko

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Education

2013–current Ph.D. in Computer Science (expected), Skolkovo Institute of Science and Technology (Skoltech), Moscow, Russia.

2011–2013 Master's degree in Computer Science, with honors, 4.87 out of 5, Moscow Institute of Physics and Technology (MIPT), Department of Applied Mathematics and Management, Moscow, Russia, Dorodnicyn Computing Center of the RAS.
Subject: Evaluation of invariant transform parameters in time series forecasting.

2010–2012 Yandex School of Data Analysis, Moscow, Russia, Additional professional education degree in data analysis, with honors, 4.75 out of 5.

2007–2011 Bachelor's degree in Computer Science, 4.83 out of 5, Moscow Institute of Physics and Technology (MIPT), Department of Applied Mathematics and Management, Moscow, Russia, Dorodnicyn Computing Center of the RAS.
Subject: Bayesian approach to trend and seasonality analysis in Markov model of nonstationary regression.

Experience

August 2013–current Ph.D. student, Skolkovo Institute of Science and Technology, Computer Vision Group, Moscow, Russia.

- Gaze correction during videoconferencing (inability of the people engaged into a videoconferencing to maintain gaze contact). The solution is based on supervised machine learning. After learning, the system becomes able to redirect the gaze of a previously unseen person by the same angular difference at realtime without any hardware apart from an in-built web-camera of a laptop.
- Biomedical imaging: ultrasound tomography image reconstruction.

August 2012–August 2013 Researcher, Datadvance, Moscow, Russia.

April 2011–July 2012 Junior researcher, Datadvance, Moscow, Russia.

- Development and implementation of data mining and machine learning algorithms; cutting-edge-of-science research in approximation, design of experiments, surrogate-base optimization, regression analysis, quickest disorder detection in time series.
- Dealing with real-world problems from airspace, social science.
- Additional responsibilities: technical communications with foreign clients, development of comprehensive tests for various algorithms, documentation writing in English and Russian (user manuals, reports, specifications).

Fellowships and awards

2012	Winner of the "Lift to the future" scholarship.
2008–2011	Winner of the Innovation Education Development Foundation scholarship founded by Abramov.
2005–2007	Multiple awards at All-Russian School Physics and Programming Olympiads.

Professional participation

June 17–June 24, 2012	4th Traditional School of Optimization and Control.
July 28–August 3, 2011	Microsoft Computer Vision School.

Summary of qualifications

Research field	Machine learning, computer vision, algorithms, numerical optimization.
Programming and scientific software	MATLAB, C/C++, C#, Python, HTML, Javascript, LaTeX.
OS	Linux, Windows.

Languages

Russian	Native proficiency.
English	Professional working proficiency.
French	Elementary proficiency.

Hobbies and interests

Hobbies	Reading, traveling, sport: football, tennis, table tennis, chess, skiing, downhill skiing, cycling.
Chess	candidate for master of sports, rating FIDE 2147.

Conference papers

D. Kononenko and V. Lempitsky. Learning to look up: Realtime monocular gaze correction using machine learning. In IEEE Computer Vision and Pattern Recognition (CVPR), 2015.

E.V. Burnaev, E.R. Kapushev, I.A. Konovalenko, D.S. Kononenko, and M.E. Panov. Gaussian processes surrogate-based optimization. In Intellectualization of information processing, 2012.

D. S. Kononenko. Methods of inverse covariance matrix approximation for

effective optimization of gaussian process likelihood. In Information Technology and Systems, 2012.

E.V. Burnaev, P.D. Erofeev, A.A. Zaytsev, E.R. Kapushev, and D.S. Kononenko. Gaussian processes surrogate modeling and airfoil optimization. In Information Technology and Systems, 2012.

D. S. Kononenko. Bayesian approach to trend and seasonality analysis in markov nonstationary regression model. In Information Technology and Systems, 2011.