Iurii Efimov

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Education

Moscow Institute of Physics and Technology

M.S. in Computer Science   Sep 2016 – present
Research areas: image processing, computer vision, deep learning, iris recognition.

B.S. in Applied Mathematics and Physics   Sep 2012 – Jun 2016
Bachelor thesis: Iris image segmentation by paired gradient method with pupil border refinement.
GPA: 4.74 / 5.0

Strong background in algorithms, linear algebra, mathematical statistics.

Experience

Samsung R&D Institute Russia

Research Developer   Nov 2016 – present
Project: Iris Recognition Project.
Results: Iris anti-spoofing algorithm for different types of spoofing attacks is developed and implemented. Quality assessment module implemented.

Research institute "Aerokosmos"

Research Developer   Nov 2015 – Oct 2016
Project: Methods of improving the spatial resolution of aerospace images.
Results: Implemented solutions show high accuracy in comparison to state-of-the-art methods.

Publications

Journals

Y. Efimov, I. Matveev, "Locating external and internal borders of the iris in eye image by paired gradients method" *Journal of Machine Learning and Data Analysis*. 2015. Vol.1. N 14. **URL:** http://jmlda.org/papers/doc/2015/no14/Efimov2015IrisBorderRecognition.pdf

Y. Efimov, I. Matveev, "Iris image segmentation by paired gradient method with pupil boundary refinement" *Information Technologies*. Vol. 23, No. 4. 2017.

V. Chigrinskiy, Y. Efimov, I. Matveev, "Fast algorithm for detecting pupil and iris boundaries" *Journal of Machine Learning and Data Analysis*. Vol. 2, No.2. 2016. **URL:** http://jmlda.org/papers/doc/2016/JMLDA2016no2.pdf

Conferences

Y. Efimov, I. Matveev, "Iris image segmentation by paired gradient method with pupil boundary refinement," in *Book of Abstracts of the 11th International Conference "Intelligent Data Processing: Theory and Applications".*, P.113. Barcelona, Spain. 2016, Oct 2016.

Y. Efimov, I. Matveev, "Locating external and internal borders of the iris in eye image by paired gradient method," in *Book of abstracts. 17th Conference on Mathematical Methods for Pattern Recognition.*, P.175. Svetlogorsk, 19-25 September, 2015 Sep 2015.

Y. Efimov, I. Matveev, "Locating external and internal borders of the iris in eye image by paired gradient method," in *58th Science conference of MIPT with international involvement*, Moscow, Russia Nov 2015.

Academic Awards

Awarded multiple scholarships: State Academic Scholarship for Special Achievements in Studies (2015, 2016, 2017), Tver Region Governor's Scholarship (2011).

Skills	Deep learning, Computer vision algorithms, biometrics algorithms, Python (Caffe, Theano, Lasagne, Tensorflow), MATLAB, C, C++, R.
Languages	Russian (Native), English (Fluent), Deutsch (Basic).