

EVGENY PONOMAREV



PERSONAL DATA

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EDUCATION

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| 2015-2017 | Skolkovo Institute of Science and Technology,
M.SC. IN COMPUTATIONAL SCIENCE AND ENGINEERING,
Information Science and Technology. |
| 2015-2017 | Moscow Institute of Physics and Technology,
M.SC. IN APPLIED MATHEMATICS AND PHYSICS,
Department of Radioengineering and Cybernetics.
GPA: 4.76/5.00
Thesis: "Reinforcement learning for trading." Advisor: Ivan OSELEDTS |
| 2011-2015 | Moscow Institute of Physics and Technology,
B.SC. IN APPLIED MATHEMATICS AND PHYSICS,
Department of Radioengineering and Cybernetics.
GPA: 4.79/5.00
Thesis: "Using optical flow for ego-motion estimation." Advisor: Dmitry Niko-LAYEV |

WORK EXPERIENCE

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| AUG 2017-CURRENT | Research Intern at CENTER FOR COMPUTATIONAL AND DATA-INTENSIVE SCIENCE AND ENGINEERING (SKOLKOVO INSTITUTE OF SCIENCE AND TECHNOLOGY)
<i>Developing and applying Reinforcement learning algorithms</i> |
| SUMMER 2016 | Summer Intern at ROBOCV
<i>Project in visual postioning</i>
Project for automatic goods grabbing from stores. I created prototype of visual system for finding boxes position. RGBD camera was used as sensor, PCL and OpenCV as main C++ libs in project. |
| 2014-15 | Junior researcher at INSTITUTE FOR INFORMATION TRANSMISSION PROBLEMS RAS
<i>Designing collective patrols and exploration system, based on unmanned ground vehicles</i>
The system of unmanned vehicles is under construction. Computer vision plays key role in such vehicle.
Main work done by me: <ul style="list-style-type: none">• Investigation of the system model behaviour in case of unideal connection.• Designing monocular method to find ego-motion, based on dense optical flow. |

INDEPENDENT PROJECTS

SEPT-DEC 2014	<p>Realization of man-in-the middle attack to paired Bluetooth device on the example of wireless keyboard</p> <p>To realize this attack we have made device that can sniff external Bluetooth traffic. Based on data from it, we have cloned victims' keyboard and entered into the channel.</p> <p>My role: hardware realisation and maintaining, working with Bluetooth protocol stack BlueZ in Linux.</p>
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COMPUTER SKILLS

Coding: **Python:** numpy, TensorFlow, Keras, Theano/Lasange, pandas;
C++: projects on CMake, libs: OpenCV, PCL;
Matlab

Other: ROS, Qt, \LaTeX , ubuntu, git, C for AVR 8-bit.

LANGUAGES

ENGLISH: B2 (TOEFL-ITP: 557)

PUBLICATIONS

PONOMAREV E.S., GRIGORYEV A.S.	<p>Using optical flow for ego-motion estimation</p> <p>Proceedings of the Information Technology and Systems 2015. – P. 457-470.</p>
PONOMAREV E.S	<p>Simulation of behavior of the system of collective unmanned ground patrolling and exploration in non-ideal conditions</p> <p>Proceedings of the 57-th traditional MIPT conference - 2014. – P. 54-55.</p>
KRUGLIK S.A., PONOMAREV E.S., VETSLER D.I.	<p>Practical realization of man in the middle attack to interfaced Bluetooth devices with an example of wireless keyboard</p> <p>Proceedings of MIPT. -2014. – V.6, N 4. – P. 111-118.</p>