

LINAR ABDRAZAKOV

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EDUCATION

Moscow Institute of Physics and Technology (MIPT), Moscow
Department of Radio Engineering and Computer Science, Bachelor

2018 - 2022
GPA: 4.55 / 5

WORK EXPERIENCE

RCDB, C++/Python Developer, ML-Engineer

July - August 2019

- Wrote tulip-indicators library for quantitative analysis.
- Used different models of machine learning to predict movements of bars in financial market.

Cognitive Modeling Centre of MIPT , C++/Python Developer, SLAM

July 2020 - Now

- Designed a criterion for stopping Monte Carlo Localization method by using covariance matrices and match ratio to launch other more accurate SLAM method on already created map.
- Accomplished high precision odometry by fusing Visual and LiDAR odometry with Unscented Kalman Filter.
- Implemented Adaptive Unscented Kalman Filter to fuse odometry with unknown measurement noise covariance (published paper).

SKILLS

Programming Languages, Frameworks and Interfaces

C/C++ (proficient), Python (proficient), R (prior experience), SQL (prior experience), Java (prior experience), JavaScript (prior experience), Bash, Docker, Git, TensorFlow, Keras, PyTorch, Scikit-Learn, OpenCV, NumPy, SciPy, Matplotlib, Seaborn, Pandas, SSH, ROS, Linux, I2C, USART, SPI and others.

Deep Learning Skills:

NeuralODE, Model-Based and Model-Free RL, DQN, DDPG, SAC, REINFORCE, Rainbow, PPO, HER, A2C, IMPALA, ResNet, EfficientNet, Inception, ShuffleNet, U-Net, Pix2Pix, etc.

Languages:

Intermediate English, native Russian.

HACKATHONS, COMPETITIONS AND EVENTS

- The Competition on RL "Interactive Grounded Language Understanding in Minecraft" by RAAI Summer School. Winner. 2021
- The Olympiad "I am a professional" on Artificial Intelligence. Prizewinner. 2021
- ABBYY Hackathon "Absolute Intelligence" by Artificial Intelligence profile. Won the second prize. 2019
- The Olympiad of the National Technology Initiative for the "Unmanned Aviation Systems" profile. Winner. 2018
- Educational intensive "Island 10-21". Profile Big Data and Artificial Intelligence. 2018

COURSES

RAAI Summer School: Reinforcement Learning course.

Fast.ai: Deep Learning From the Foundations.

Coursera: Math and Python for data analysis by Yandex and MIPT; Search for structure in data by Yandex and MIPT; Learning on marked up data by Yandex and MIPT.

Stepik: Neural Networks and Computer Vision by Samsung Research Russia; Python programming; Introduction to Programming (C++); SSH tricks; Algorithms: theory and practice. Methods; C++ programming; Git Basics; JavaScript for beginners; Introduction in Robot Operating System.