

LINAR ABDRAZAKOV

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WORK EXPERIENCE

Huawei, Researcher and Developer in AI

September 2021 - Now

- Implementing model zoo for MindSpore library.
- Implemented SE-Net (se-resnet101) on MindSpore to be runnable on a GPU.

Cognitive Modeling Centre of MIPT, Researcher in SLAM and Sensor Fusion *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.
- Decreased a localization error on 8.5 % by implementing neural network adaptation of the unscented Kalman filter (published paper).

RCDB, C++/Python Developer

July - August 2019

- Implemented tulip-indicators library for quantitative analysis.
- Derived and implemented custom loss function for training a model to predict bar movement.
- Wrote a method to find the best probability threshold to get desired precision and recall of classifier.

EDUCATION

Moscow Institute of Physics and Technology (MIPT), Moscow

2018 - 2022

Department of Radio Engineering and Computer Science, Bachelor

GPA: 4.55 / 5

SKILLS

Programming Languages, Frameworks:

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

Hardware Skills:

Raspberry PI, Arduino, Atmel, STM.

Deep Learning Skills:

NeuralODE, DQN, DDPG, SAC, REINFORCE, Rainbow, PPO, HER, A2C, IMPALA, Dreamer, ResNet, EfficientNet, Inception, ShuffleNet, U-Net, Pix2Pix, etc.

Languages:

Intermediate English, native Russian.

ACHIEVEMENTS

- The Competition on RL "HungryGeese" on Kaggle. Bronze medal. *2021*
- 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*

COURSES

RAAI Summer School: Reinforcement Learning course.

Udacity: Self-Driving Car Engineer.

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.