

VLADIMIR NEKRASOV

EDUCATION

UNIVERSITY OF ADELAIDE

PH.D. IN COMPUTER SCIENCE

Aug, 2017 - Nov, 2020 | Adelaide, Australia

Dean's Commendation for Thesis Excellence

Semantic Image Segmentation and Other Dense Per-Pixel Tasks: Practical Approaches

MOSCOW STATE UNIVERSITY

SPECIALIST D. IN MECHANICS

Sep, 2010 - Jun, 2015 | Moscow, Russia

GPA: 4.6 / 5.0

Indoor Navigation, Stability & Control Theory, Applied Mathematics

LINKS

Blog:// drs.sleep.github.io

Github:// [drs.sleep](https://github.com/drsleep)

LinkedIn:// [nekrasowladimir](#)

Gmail:// [nekrasowladimir](#)

SKILLS

PROGRAMMING

Over 5000 lines:

Python • R

Over 1000 lines:

C • C++ • Matlab • Scala

DEEP LEARNING

PyTorch • TensorFlow • Caffe

COURSEWORK

GRADUATE

Advanced Machine Learning

Modern Probability Theory &

Stochastic Processes

Bio-Data Programming

UNDERGRADUATE

Numerical Methods

Complex Analysis

Differential Geometry and Topology

Mathematical Analysis

Linear Algebra

Probability Theory

Math. Statistics & Random Processes

Discrete Mathematics

PUBLICATIONS

CONFERENCE ARTICLES

- V. Nekrasov, H. Chen, C. Shen, and I. Reid. Architecture Search of Dynamic Cells for Semantic Video Segmentation, In **WACV**, 2020.
- V. Nekrasov, C. Shen, and I. Reid. Template-Based Automatic Search of Compact Semantic Segmentation Architectures, In **WACV**, 2020.
- V. Nekrasov, H. Chen, C. Shen, and I. Reid. Fast Neural Architecture Search of Compact Semantic Segmentation Models via Aux. Cells, In **CVPR**, 2019.
- V. Nekrasov et al. Real-Time Joint Semantic Segmentation and Depth Estimation Using Asymmetric Annotations, In **ICRA**, 2019.
- V. Nekrasov, C. Shen, and I. Reid. Light-Weight RefineNet for Real-Time Semantic Segmentation. In **BMVC**, 2018.
- V. Nekrasov, J. Ju, and J. Choi. Global Deconvolutional Networks for Semantic Segmentation. In **BMVC**, 2016.

PRE-PRINTS

- V. Nekrasov, C. Shen, and I. Reid. Diagnostics in Semantic Segmentation, [arXiv:1809.10328](https://arxiv.org/abs/1809.10328).

EXPERIENCE

AUTONOMY TEAM, SKYDIO | DEEP LEARNING RESEARCH ENGINEER

Aug, 2020 - now | Remote

- Deep Learning team lead
- Improving and extending Skydio Autonomy Engine

AUTONOMY TEAM, SKYDIO | COMPUTER VISION RESEARCH INTERN

Jun, 2019 - Nov, 2019 | Redwood City, CA, USA

- Worked on the obstacle avoidance system of an autonomous flying robot, Skydio 2

AO "BINBANK DIGITAL" | MAIN SPECIALIST / DATA SCIENTIST

Apr, 2017 - Jul, 2017 | Moscow, Russia

- Built predictive machine learning models quantifying clients' responses to various promotions and campaigns

UNIST, ARTIFICIAL INTELLIGENCE LAB | RESEARCHER

Aug, 2015 - Feb, 2016 | Ulsan, South Korea

- Built an improved deconvolutional block for semantic image segmentation

SVYAZNOY | DATA SCIENTIST

Dec, 2014 - Jul, 2015 | Moscow, Russia

- Built a ranking machine learning model to provide personalised recommendations in an on-line store

WEB DEMOS

Dense per-pixel tasks in your browser via Javascript https://drs.sleep.github.io/demos/	2019
Diagnostics in Semantic Segmentation - supplementary https://cv-conf.shinyapps.io/diag-sem-segm/	2018
NCI-60 Interactive Application https://drs.sleep.shinyapps.io/bio_data/	2016