

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:// drsleepp.github.io

Github:// [drsleepp](https://github.com/drsleepp)

LinkedIn://

[vladimir-nekrasov-6549a4a7](https://www.linkedin.com/in/vladimir-nekrasov-6549a4a7)

Gmail:// [nekrasovvladimir](mailto:nekrasovvladimir@gmail.com)

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

EXPERIENCE

AI TEAM, NEARMAP | SR. DATA SCIENTIST

Jun, 2022 - | Remote

AUTONOMY TEAM, SKYDIO | SR. DEEP LEARNING RESEARCH ENGINEER, TEAM LEAD

Aug, 2020 - Mar, 2022 | Remote

- Improved end-to-end deep learning processes

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

- Proposed an improved upsampling block for semantic image
segmentation

SVYAZNOY | DATA SCIENTIST

Dec, 2014 - Jul, 2015 | Moscow, Russia

- Built a personalised ranking machine learning model for an on-line store

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).

WEB DEMOS

Dense per-pixel tasks in your browser via Javascript 2019
<https://drsleepp.github.io/demos/>

Diagnostics in Semantic Segmentation - supplementary 2018
<https://cv-conf.shinyapps.io/diag-sem-segm/>

NCI-60 Interactive Application 2016
https://drsleepp.shinyapps.io/bio_data/