

Vladimir Nekrasov

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EDUCATION

UNIVERSITY OF ADELAIDE

PH.D. IN COMPUTER SCIENCE

Aug, 2017 - Aug, 2020 (expected) | Adelaide, Australia
Per-Pixel Dense Classification Tasks

UNIST

PH.D. IN COMPUTER SCIENCE

Mar, 2016 - Feb, 2017 (permanent voluntary leave) | Ulsan, South Korea

GPA: 4.3 / 4.3

Semantic Image Segmentation,
Text-to-Image Generation

MOSCOW STATE UNIVERSITY

SPECIALIST D. IN MECHANICS

Sep, 2010 - Jun, 2015 | Moscow, Russia

GPA: 4.6 / 5.0

Indoor Navigation, Stability & Control Theory

LINKS

Blog:// drsleepp.github.io

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

Kaggle:// [drsleepp](https://kaggle.com/drsleepp)

LinkedIn:// [nekrasowladimir](https://www.linkedin.com/in/nekrasowladimir)

SKILLS

PROGRAMMING

Over 5000 lines:

Python • R

Over 1000 lines:

C • C++ • Matlab • Scala • Latex

DEEP LEARNING

PyTorch • TensorFlow • Caffe • MXNet

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.
- V. Nekrasov. Indoor Navigation Techniques. (In Russian). In **Lomonosov International Conference**, Moscow, 2013.

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 | 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

HPC SUPPORT, THE UNIVERSITY OF ADELAIDE | CADET

Nov, 2017 - Dec, 2017 | Adelaide, Australia

- Parsed and built dependency trees for existing software
- Created new users accounts, installed HPC software on request

AO "BINBANK DIGITAL" | MAIN SPECIALIST / DATA SCIENTIST

Apr, 2017 - Jul, 2017 | Moscow, Russia

- Built a predictive machine learning model able to quantify clients' responses to different promotions and campaigns

UNIST, ARTIFICIAL INTELLIGENCE LAB | RESEARCHER

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

- Proposed an improved deconvolutional block for semantic image segmentation
- Worked on and studied theoretical foundations of deep learning (polynomial learnability, the effect of depth)

SVYAZNOY | DATA SCIENTIST

Dec, 2014 - Jul, 2015 | Moscow, Russia

- Optimised personalised recommendations for e-commerce site
- Built an items ranking algorithm based on the NDCG metric
- Built a classifier for personalisation of advertisement campaigns

WEB DEMOS

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