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:// **drsleep.github.io**
Github:// **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

EXPERIENCE

AUTONOMY TEAM, SKYDIO | 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

HPC SUPPORT, THE UNIVERSITY OF ADELAIDE | Cadet
Nov, 2017 - Dec, 2017 | Adelaide, Australia
- Created new accounts, installed HPC software on request

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** .

WEB DEMOS

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