Vladimir Nekrasov

linkedIn/vladimir-nekrasov-6549a4a7 | github/drsleep | https://drsleep.github.io

A deep learning and computer vision expert focused on simplifying existing end-to-end pipelines in order to create practical solutions and applications. Extensive experience building real-time deep learning networks optimised for embedded devices.

EDUCATION

Ph.D. in Computer Science   Adelaide, Australia | Aug, 2017 - Nov, 2020
THE UNIVERSITY OF ADELAIDE, SCHOOL OF COMPUTER SCIENCE
Thesis: Semantic Image Segmentation and Other Dense Per-Pixel Tasks: Practical Approaches
Dean's Commendation for Thesis Excellence

Specialist D. in Mechanics   Moscow, Russia | Sep, 2010 - Jun, 2015
LOMONOSOV MOSCOW STATE UNIVERSITY, FACULTY OF MATHEMATICS AND MECHANICS
GPA: 4.6 / 5.0
Majors: Indoor Navigation, Stability & Control Theory

SELECTED PUBLICATIONS

CVPR   Long Beach, USA, 2019
FAST NEURAL ARCHITECTURE SEARCH OF COMPACT SEMANTIC SEGMENTATION MODELS VIA AUX. CELLS
V. Nekrasov, H. Chen, C. Shen, and I. Reid   https://github.com/DrSleep/nas-segm-pytorch

ICRA   Montreal, Canada, 2019
REAL-TIME JOINT SEMANTIC SEGMENTATION AND DEPTH ESTIMATION USING ASYMMETRIC ANNOTATIONS
V. Nekrasov et al.   https://github.com/DrSleep/multi-task-refinenet

BMVC   Newcastle-upon-Tyne, UK, 2018
LIGHT-WEIGHT REFINENET FOR REAL-TIME SEMANTIC SEGMENTATION
V. Nekrasov, C. Shen, and I. Reid   https://github.com/DrSleep/light-weight-refinenet

BMVC   York, UK, 2016
GLOBAL DECONVOLUTIONAL NETWORKS FOR SEMANTIC SEGMENTATION
V. Nekrasov, J. Ju, and J. Choi   https://github.com/DrSleep/GDN

WORK EXPERIENCE (LAST 3)

NEARMAP | SR. DATA SCIENTIST, AI TEAM   Remote, AU | Jun, 2022 - present

SKYDIO | SR. DEEP LEARNING RESEARCH ENGINEER, AUTONOMY TEAM   Remote, AU | Aug, 2020 - Mar, 2022

- Built and improved end-to-end reproducible deep learning pipelines and processes
- Led and managed a team of 5 deep learning engineers

SKYDIO | COMPUTER VISION RESEARCH INTERN, AUTONOMY TEAM   Redwood City, USA | Jun, 2019 - Nov, 2019

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

WEB DEMOS & OPEN-SOURCE PROJECTS

DENSE PER-PIXEL TASKS IN YOUR BROWSER VIA JAVASCRIPT   2019
https://drsleep.github.io/demos/

DIAGNOSTICS IN SEMANTIC SEGMENTATION - SUPPLEMENTARY   2018
https://cv-conf.shinyapps.io/diag-sem-segm/

DEEPLAB-RESNET-V2 IN TENSORFLOW   2017
https://github.com/DrSleep/tensorflow-deeplab-resnet

NCI-60 CANCER CELL INTERACTIVE EXPLORATIVE APPLICATION   2016
https://drsleep.shinyapps.io/bio_data/