VLADIMIR IASHIN

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I am a Ph. D. student at Tampere University, where I am working on multi-modal deep learning in video understanding. Currently, I am looking for a research internship lasting up to six months in 2021–22 and willing to relocate if necessary.

EDUCATION

Tampere University   *2018 – Present*
Doctor of Science, Computing and Electrical Engineering

Higher School of Economics
Master of Science (with distinction), Applied Math. and Computer Science   *Graduation Rank: Top-2*

Higher School of Economics
Bachelor of Science, Economics   *Graduation Rank: Top-1*

SELECTED PUBLICATIONS

· V. Iashin & E. Rahtu. Taming Visually Guided Sound Generation.
Preprint, 2021.
Project page & code: `iashin.ai/specvqgan`

· V. Iashin & E. Rahtu. A Better Use of Audio-Visual Cues: Dense Video Captioning with Bi-modal Transformer.
In *British Machine Vision Conference* (BMVC), 2020.
Project page, code & presentation: `iashin.ai/bmt`

· V. Iashin & E. Rahtu. Multi-modal Dense Video Captioning.
In *Computer Vision and Pattern Recognition (CVPR) Workshops*, 2020.
Project page, code & presentation: `iashin.ai/mdvc`

INDUSTRY EXPERIENCE

Speech Technology Center   June – August, 2018
Research Intern, R & D

· Experimented with state-of-the-art CNN architectures for face recognition (500K+ people) in PyTorch
· Improved the performance metric in the matured project by 2 %

TECHNICAL STRENGTHS

Python, PyTorch (+DDP), Git, Docker/Singularity, Slurm, AWS & Google Cloud

Transformers, 2D/3D CNN, RNN, GAN, [VQ]VAE, Multi-modal Fusion, Video, Audio, and Language Processing

SELECTED FREE-TIME PROJECTS

1st Place in CORSMAL 2020: Multi-modal Fusion and Learning for Robotics
Deep Learning, Audio and Video Processing, Docker, PyTorch   `github.com/v-iashin/CORSMAL`

· Majorly contributed to 2/3 tasks, validation approach, organization of the code, Docker image, & tech report

Video Features
Video Processing, PyTorch, Python, ffmpeg   `github.com/v-iashin/video_features`

· Provides an easy and flexible API for feature extraction from raw videos allowing multi-GPU acceleration

Online Object Detector
Full-stack, PyTorch, Python, Flask, GCP/AWS, HTML, CSS, Ajax   `v-iashin.github.io/detector`

· YOLO object detector as a web application. It will tell you what's on an image you uploaded

REVIEWER

ICCV (2021), CVPR Workshops (2021), TPAMI (2020)

SUMMER SCHOOLS

PAISS by Inria & Naver Labs (2021), ISSS by Queen Mary U. of London (2020), ICVSS by U. of Catania (2019)