

## 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.

### TECHNICAL STRENGTHS

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- 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 PUBLICATIONS

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- [3] V. Iashin & E. Rahtu. Taming Visually Guided Sound Generation.  
In *British Machine Vision Conference (BMVC)*, 2021 – **Oral Presentation**.  
Project page & code: [iashin.ai/SpecVQGAN](https://iashin.ai/SpecVQGAN)
- [2] 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](https://iashin.ai/bmt)
- [1] 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](https://iashin.ai/mdvc)

### REVIEWER

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

### INDUSTRY EXPERIENCE

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**Speech Technology Center**  
*Research Intern, R & D*

June – August, 2018

- Experimented with state-of-the-art CNN backbones for reverse image search in PyTorch
- Improved the performance metric in the matured project by 2%

### SELECTED FREE-TIME PROJECTS

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#### Online Object Detector

*Full-stack, PyTorch, Python, Flask, Google Cloud/AWS, HTML, CSS, Ajax*

[iashin.ai/detector](https://iashin.ai/detector)

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

#### Video Features

*Video & Audio Processing, PyTorch, Python, ffmpeg, OpenCV*

[iashin.ai/video\\_features](https://iashin.ai/video_features)

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

#### 1<sup>st</sup> Place in CORSMAL 2020: Multi-modal Fusion and Learning for Robotics

*Deep Learning, Audio & Video Processing, Docker, PyTorch*

[github.com/v-iashin/CORSMAL](https://github.com/v-iashin/CORSMAL)

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

### EDUCATION

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#### Tampere University

*Doctor of Science, Computing and Electrical Engineering*

2018 – Present

#### National Research University Higher School of Economics

*Master of Science (with distinction), Applied Math. and Computer Science*

2018

*Graduation Rank: Top-2*

#### National Research University Higher School of Economics

*Bachelor of Science, Economics*

2016

*Graduation Rank: Top-1*

### SUMMER SCHOOLS

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