

Konstantin Kozhemiakov

Curriculum Vitae

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Education

- 2016 – 2020 **Bachelor Student**, *MSU, Faculty of Computational Mathematics and Cybernetics, Laboratory of Computer Graphics & Multimedia*, Moscow, Russia, GPA: 4.8.
Relevant courses:
- o Video Processing
 - o Data Compression
 - o Introduction in Computer Vision
 - o Mathematical statistics

Technical Skills

- Programming Languages C/C++, Python
- Applications FFmpeg, Git, CMake
- Frameworks and libraries PyTorch, OpenCV, Numpy+Scipy+Pandas+Matplotlib
- Languages Russian, English (Intermediate)
- Extra Presentation Skills

Projects

- 2020 **Geometric Distortions Estimation in Stereoscopic and VR180 Videos.**
CNN based algorithm for geometric distortions estimation with high precision in stereoscopic videos. Bachelor diploma. https://github.com/djowanni1/geometry_estimation
- 2019 **VR Motion Sickness Assessment.**
Research in automatic motion sickness assessment for VR stereoscopic videos
- 2018 **Depth from Motion.**
Developed a plugin for VirtualDub for Depth Estimation in a mono-view video using Motion Estimation methods
- 2017 **File Archiver.**
Developed an universal file archiver based on the Arithmetic Coding methods on C/C++

Additional awards

- 2015, 2016 Prize-winner of the Regional stage of the All-Russian Math and Physics Olympiad
- 2015 Participant in Math tournament "XIX Kolmogorov's memory cup", Sochi, Russia

Interests

- o Video Processing
- o Computer Vision

Work experience

- 2019 – present **Huawei RRI, Lossless Video Compression Project.**
Work in Lossless Video Compression Team (IS&DS Lab). Developed a part of FFmpeg-based video transcoder with interface for syntax elements processing for H264 videos (H265 is under progress).