G'ayrat Tangriberganov

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Short Bio

I am a Researcher in Konyang University Medical Center. Prior to joining the current research center, I spent two memorable years as Graduate student and obtained M.Eng. degree in 2020 from Kumoh National Institute of Technology. My research spans Computer Vision with a focus on Instance Segmentation, Medical Image Generation, and Self-Supervised Learning task

Work Experience

Konyang University Medical Center   *Daejeon, Republic of Korea*
AI Researcher Engineer   *August 2020 - Present*

- Synthetic Medical Image Dataset Generation for Enhanced Accessibility and Research: **Generative Adversarial Networks** (StylGAN2-ADA, ProGAN), and Hybrid **Diffusion**-GAN models, **Data Preprocessing**, 2D/3D Image Generation and **Classification**. *[project-page]*
- A Visual Inspection System Research Designed for Detecting Polyps in Colonoscopy Procedure: Image-Preprocessing, Computer Vision, **Object Detection/Segmentation**.
- A Research Applied to Effective Feature Extraction using Self-Supervised Learning Methods for Polyps in Colonoscopy Video Footages: **Vision Transformer** (DINO), Generative Adversarial Network (StyleGAN2-ADA), **Image Segmentation** (U-Net, ResUNet, ResUNet++), Transfer-Learning. *[project-pages]*

AiLab   *Gumi, Republic of Korea*
AI/ML Researcher   *August 2018 - August 2020*

- A Hybrid approach for **Speech** emotion recognition using 1D-CNN LSTM. *[Google Scholar]*
- Independent projects: **Speech Synthesis**, audio-processing, **TTS**, **STT** *[results]*.
- Image Classification on small datasets in Pytorch. *[project-page]*

Education

Kumoh National Institute of Technology   *Gumi, Republic of Korea*
M.Eng. in Software Engineering   *August 2018 - August 2020*

Tashkent University of Information Technologies in Uzbekistan   *Tashkent, Republic of Uzbekistan*
M.Sc. in Telecommunication Engineering   *August 2015 - August 2017*

Tashkent University of Information Technologies in Uzbekistan   *Tashkent, Republic of Uzbekistan*
B.Sc. in Telecommunication Engineering   *August 2011 - August 2015*

Skills

Areas of Expertise	Image-processing, Audio-processing Machine/Deep Learning, Computer Vision (Object Detection/Segmentation), 2D/3D Vision, Generative Adversarial Models, Speech Synthesis, Linux, Pytorch, TensorFlow, Scikit, NumPy, Pandas, OpenCV, etc.
Programming	Python (OpenCV, Numpy, Dlib, Scikit-learn, Pandas, PIL, Scikit-image, Matplotlib, etc.)
Language	Uzbek (Native), English (Professional), Korean (Basic)