KWANGGYOON SEO

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EDUCATION

KAIST, Republic of Korea - supervised by Junyong Noh Sep 2018 - Present Ph.D. in Graduate School of Culture Technology Research Interests: Deep Learning, Computer Graphics, Computer Vision KAIST, Republic of Korea - supervised by Junyong Noh Sep 2016 - Aug 2018 M.S. in Graduate School of Culture Technology Thesis: Interactive Shadow Removal using a cGAN KAIST, Republic of Korea Sep 2011 - Aug 2016 B.E. in Electrical Engineering and minor in Culture Technology WORK EXPERIENCE Jan 2017 - Present Visual Media Lab. KAIST Research Assistant Republic of Korea Clova Voice&Avatar, Naver Corp. Dec 2019 - Jun 2020 Research Intern Republic of Korea · Researched on a neural network model for video inpainting **GOLFZON** Dec 2015 - Feb 2016 SW Engineer Intern Republic of Korea · Developed an infra-red marker tracking system for Head-Mounted-Displays **PUBLICATIONS** Video Inpainting[†] TBDpreparing An Interactive Object Registration Method for an Absolute Mid-air Pointing Interface TBDHyunggoog Seo, Jaedong Kim, Kwanggyoon Seo, Bumki Kim, Kyunghan Lee, Junyong Noh Virtual Camera Layout Generation using a Reference Video TBDunder review Jungeun Yoo*, Kwanggyoon Seo*, Sanghun Park, Jaedong Kim, Dawon Lee, Junyong Noh Neural Crossbreed: Neural Based Image Metamorphosis Nov 2020 SIGGRAPH Asia 2020, ACM Transactions on Graphics Sanghun Park, **Kwanggyoon Seo**, Junyong Noh Cinematography Generation using a Reference Video Oct 2019

* denotes equal contribution

PROJECTS

Pacific Graphics 2019 Poster

† denotes temporally title

3D Cinemagraph for AR Contents Creation

June 2020 - Dec 2020

Funding: Institute for Information and Communications Technology Promotion

Kwanggyoon Seo, Jungeun Yoo, Sanghun Park, Jaedong Kim, Dawon Lee, Junyong Noh

Analyze cinematography properties of video clips using neural networks and replicate the cinematographic camera position and movement in 3D animation.

Development of Camera Work Tracking Technology for Animation Production using Artificial Intelligence

Funding: Korea Creative Content Agency

Analyze cinematography properties of video clips using neural networks and replicate the cinematographic camera position and movement in 3D animation.

Development of Multi-screen

Movie Theatre System and Immersive Content

Jan 2017 - May 2017

May 2018 - Dec 2019

Funding: Institute for Information and Communications Technology Promotion Wraping C++ into C# for screen optimization algorithm used in multi-screen system.

PATENTS

[10-2018-0124256] Artificial intelligence based cinematography learning and camerawork creation for animation [10-2019-0019620] Method and apparatus of processing image based on aritificial neural network

SKILLS

Programing Language Python, Matlab, C++ , C#
Framework Pytorch, Tensorflow, OpenCV

Language Korean, English