

KWANGGYOON SEO

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seokg.github.io

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

- Visual Media Lab. KAIST** *Jan 2017 - Present*
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[†]** *TBD*
preparing
Kwanggyoon Seo, Anonymous, Anonymous, Anonymous, Anonymous
- An Interactive Object Registration Method[†]** *TBD*
under review
Anonymous, Anonymous, **Kwanggyoon Seo**, Anonymous, Anonymous, Anonymous
- Virtual Camera Layout Generation using a Reference Video** *May 2021*
CHI 2021
Jungeun Yoo*, **Kwanggyoon Seo***, Sanghun Park, Jaedong Kim, Dawon Lee, Junyong Noh
- Neural Crossbreed: Neural Based Image Metamorphosis** *Nov 2020*
SIGGRAPH Asia 2020
Sanghun Park, **Kwanggyoon Seo**, Junyong Noh
- Cinematography Generation using a Reference Video** *Oct 2019*
Pacific Graphics 2019 Poster
Kwanggyoon Seo, Jungeun Yoo, Sanghun Park, Jaedong Kim, Dawon Lee, Junyong Noh

[†] denotes temporally title

* denotes equal contribution

PROJECTS

- 3D Cinemagraph for AR Contents Creation** *June 2020 - Dec 2020*
Funding: Institute for Information and Communications Technology Promotion
Analyze natural image for novel view synthesis and cinemagraph generation for 3D AR contents.

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

May 2018 - Dec 2019

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

Funding: Institute for Information and Communications Technology Promotion

Wrapping 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 artificial neural network

SKILLS

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|----------------------------|-----------------------------|
| Programing Language | Python, Matlab, C++ , C# |
| Framework | Pytorch, Tensorflow, OpenCV |
| Language | Korean, English |