## Jaeheung Surh


CONTACT INFORMATION

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RESEARCH INTERESTS

- Computational Photography
- Image Processing
- Stereo Matching
- Deep Learning

WORK EXPERIENCE

**Center of Human-centered Interaction for Coexistence (CHIC)**, Seoul, Korea

Research Engineer

- Development of a high volume data transfer network framework for interactive and cooperative experience in networked VR
- Development of computer vision solutions to aid in VR QoE

EDUCATION

**KAIST**, Daejeon, Korea

M.S., Electrical Engineering, Mar 2015 – Feb, 2017

- Thesis: "Fast and Robust Depth from Focus using Ring Difference Filter"
- Advisor: Prof. In So Kweon
- Area of Study: Computer Vision

**KAIST**, Daejeon, Korea

B.S., Electrical and Electronic Engineering, Sept 2011 – Feb 2015

- Emphasis on network programming

RESEARCH EXPERIENCE

**Human-Centered Interaction for Coexistence Project**, Seoul, Korea
*Researcher*, CHIC — April 2017 – Present

- Researched new computer vision solutions to aid in VR QoE.

**National Core Research Center (NCRC)**, Daejeon, Korea
*Researcher*, Personal Plug and Play DigiCar Center — Aug 2015 – Feb 2017

- Researched new camera systems for future vehicles.

INTERNATIONAL CONFERENCES

1. **Jaeheung Surh**, Hae-Gon Jeon, Hyowon Ha, Sunghoon Im and In So Kweon, "Noise Robust Depth from Focus using a Ring Difference Filter", *In Proc. of the IEEE Conference on Computer Vision and Pattern Recognition* (**CVPR**) [Spotlight Presentation], July 2017.
2. Bokyung Lee, Jiwoo Hong, **Jaeheung Surh** and Daniel Saakes, "Ori-mandu: Korean Dumpling into Whatever Shape You Want", *In Proc. of the ACM SIGCHI Conference on Designing Interactive Systems* (**DIS**) [Pictorial], June 2017.
3. Bokyung Lee, Jiwoo Hong, **Jaeheung Surh** and Daniel Saakes, "Ori-mandu: Korean Dumpling into Whatever Shape You Want", *In Proc. of the ACM CHI Conference Extended Abstracts on Human Factors in Computing Systems* (**CHI**) [Video Showcase], May 2017.

OTHER PUBLICATIONS

1. **Jaeheung Surh**, Hae-Gon Jeon, Hyowon Ha, Sunghoon Im and In So Kweon, "Fast Depth from Defocus with Your Mobile Phone for Synthetic Defocus", *In Proc. of the 28th Workshop on Image Processing and Image Understanding* (**IPIU**), Feb 2016.

IT SKILLS

- Languages: C/C++, MATLAB, LaTeX, Python
- Experience with Linux socket programming