

Jaeheung Surh

CONTACT INFORMATION	L8326, KIST, Hwarangno 14-gil 5 Seongbuk-gu, Seoul 02792 Republic of Korea	Tel.: +82-10-9868-8239 E-mail: jaeheungsurh@gmail.com Website: jaeheungs.github.io
RESEARCH INTERESTS	<ul style="list-style-type: none">• Computational Photography• Image Processing• Stereo Matching• Deep Learning	
WORK EXPERIENCE	Center of Human-centered Interaction for Coexistence (CHIC) , Seoul, Korea Research Engineer <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• 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 <ul style="list-style-type: none">• Emphasis on network programming• Early graduation (1 semester)	
RESEARCH EXPERIENCE	Human-Centered Interaction for Coexistence Project , Seoul, Korea <i>Researcher</i> , CHIC April 2017 – Present <ul style="list-style-type: none">• Researched new computer vision solutions to aid in VR QoE. National Core Research Center (NCRC) , Daejeon, Korea <i>Researcher</i> , Personal Plug and Play DigiCar Center Aug 2015 – Feb 2017 <ul style="list-style-type: none">• Researched new camera systems for future vehicles.	
INTERNATIONAL CONFERENCES	<ol style="list-style-type: none">1. Jaeheung Surh, Hae-Gon Jeon, Hyowon Ha, Sunghoon Im and In So Kweon, “Noise Robust Depth from Focus using a Ring Difference Filter,” <i>In Proc. of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i> – 29% acceptance rate) [Spotlight Presentation – 5% of submissions], July 2017.2. Bokyoung Lee, Jiwoo Hong, Jaeheung Surh and Daniel Saakes, “Ori-mandu: Korean Dumpling into Whatever Shape You Want,” <i>In Proc. of the ACM SIGCHI Conference on Designing Interactive Systems (DIS)</i> – 22% acceptance rate) [Pictorial], June 2017.3. Bokyoung Lee, Jiwoo Hong, Jaeheung Surh and Daniel Saakes, “Ori-mandu: Korean Dumpling into Whatever Shape You Want,” <i>In Proc. of the ACM CHI Conference Extended Abstracts on Human Factors in Computing Systems (CHI)</i> – 25% acceptance rate) [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.

TALKS

- “Fast and Noise Robust Depth from Focus using Ring Difference Filter with Your Mobile Phone,” (**Naver D²**), [YouTube video](#), Sept 2017.

IT SKILLS

- Languages: C/C++, MATLAB, C#, L^AT_EX, Python, JAVA
- Experience with Linux and socket programming
- Experience with Tensorflow
- Experience with Unity (C) and VR development