

Sunghoon Im (Male)

CONTACT INFORMATION	1989/02/07 (Male) Room 211, Bldg N1, KAIST 291 Daehak-ro, Yuseong-gu, Daejeon 305-701 Republic of Korea	Tel.: +82-10-3533-1405 Tel.: +82-42-350-5465 E-mail: shim@rcv.kaist.ac.kr https://sites.google.com/site/shimrcv/
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RESEARCH INTERESTS	<ul style="list-style-type: none">• 3D Reconstruction• Stereo matching• Computational photography
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EDUCATION	<p>KAIST, Daejeon, Korea</p> <p>Ph.D. Student, Electrical Engineering, Mar 2016-Present</p> <ul style="list-style-type: none">• Advisor: Prof. In So Kweon <p>KAIST, Daejeon, Korea</p> <p>M.S., Electrical Engineering, Feb 2016</p> <ul style="list-style-type: none">• Thesis: "Structure from Small Motion for Hand-held Cameras"• Advisor: Prof. In So Kweon• GPA: 3.81/4.3 <p>Sogang University, Seoul, Korea</p> <p>B.S., Electronic Engineering, Feb 2014</p> <ul style="list-style-type: none">• Advisor: Prof. Gyeonghwan Kim• Summa cum laude (GPA: 3.91/4.3)
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RESEARCH EXPERIENCES	<p>KAIST, Daejeon, Korea</p> <p><i>Research Assistant</i>, Robotics and Computer Vision Laboratory Mar 2014 – present</p> <ul style="list-style-type: none">• Advisor: Prof. In So Kweon.• Researched computer vision algorithms, especially for 3D reconstruction and stereo matching. <p>Sogang University, Seoul, Korea</p> <p><i>Research Assistant</i>, Man Machine Interface Laboratory Jun 2013 – Feb 2014</p> <ul style="list-style-type: none">• Advisor: Prof. Gyeonghwan Kim.• Researched computer vision algorithms, especially for driver monitoring system.
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PUBLICATIONS	<p>International Conference</p> <ol style="list-style-type: none">1. Sunghoon Im, Hyowon Ha, Francois Rameau, Hae-Gon Jeon, Gyeongmin Choe and In So Kweon, "All-around Depth from Small Motion with A Spherical Panoramic Camera", <i>In Proc. of European Conference on Computer Vision (ECCV)</i>, Oct 2016.2. Hyowon Ha, Sunghoon Im, Jaesik Park, Hae-Gon Jeon and In So Kweon, "High-quality Depth from Uncalibrated Small Motion Clip", <i>In Proc. of IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i> [Oral], Jun 2016.3. Hae-Gon Jeon, Joon-Young Lee, Sunghoon Im, Hyowon Ha and In So Kweon, "Stereo Matching with Color and Monochrome Cameras in Low-light Conditions", <i>In Proc. of IEEE Conference on Computer Vision and Pattern Recognition (CVPR)</i>, Jun 2016.
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4. **Sunghoon Im**, Hyowon Ha, Gyeongmin Choe, Hae-Gon Jeon, Kyungdon Joo and In So Kweon, “High Quality Structure from Small Motion for Rolling Shutter Cameras”, *In Proc. of IEEE International Conference on Computer Vision (ICCV)*, Dec 2015.
5. **Sunghoon Im**, Gyeongmin Choe, Hae-Gon Jeon and In So Kweon, “Depth from Accidental Motion using Geometry Prior”, *In Proc. of IEEE International Conference on Image Processing (ICIP) [Top 10% paper]*, Sep 2015.

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.
2. **Sunghoon Im**, Hae-Gon Jeon, Hyowon Ha and In So Kweon, “Depth Estimation from Light Field Cameras”, *In Proc. of the 12th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI)*, Oct 2015.
3. Dong-jin Kim, Donggeun Yoo, **Sunghoon Im**, Namil Kim, T. Sirinukulwattana and In So Kweon, “Relative Attributes with Deep Convolutional Neural Network”, *In Proc. of the 12th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI)*, Oct 2015.

HONORS & AWARDS

- Global Ph.D. Fellowship, National Research Foundation of Korea Aug 2016 - Present (about 20K USD/year + Full scholarship for 2+1 years)
- Qualcomm Innovation Award 2016, Qualcomm Korea Corp. and KAIST Mar 2016
- Silver prize, 22th HumanTech Paper Award, Samsung Electronics Co., Ltd. Feb 2016
- Best Poster Award, IWRCV 2015 General Chair Nov 2015
- Officail Best 10% Paper Selection, ICIP 2015 Organizing Committee Sep 2015
- Summa Cum Laude, Sogang University Feb 2014
- Design project competition(Silver Prize), Sogang University Nov 2013
- Scholarship, Sogang alumni association Feb 2012 – Feb 2013
- Scholarship, Korea Scholarship Foundation Feb 2012 – Feb 2014
- Prize for the top first percentile GPA, Sogang University Sep 2011, Feb 2012, Sep 2012

EXPERIENCES

Teaching Experience

- EE209, Programming Structure for Electrical Engineering Fall 2014 – Fall 2015
- Volunteer work, Mathmetics at an orphanage Feb 2008 – Feb 2009

Extra Experience

- International Computer Vision Summer School (**ICVSS 2016**), Sicily, Italy July 2016
- Presenter, Korea Electronic Show (**KES 2015**), Ilsan, Korea Oct 2015
- Presenter, NVIDIA GTC Korea 2015, Seoul, Korea Sep 2015

IT SKILLS

- Languages: C, C++, MATLAB, \LaTeX