Sangil Lee

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EDUCATION

Seoul National University, Korea, Republic of

09/17 – present

Ph.D. Student in Mechanical and Aerospace Engineering

- · Advisor: Professor H. Jin Kim
- · Research Focus: 3D Vision for Autonomous Systems

Seoul National University, Korea, Republic of

03/15 - 08/17

M.S. in Mechanical and Aerospace Engineering

- · Thesis: Robust Visual Odometry via Rigid Motion Segmentation for Dynamic Environments
- · Advisor: Professor H. Jin Kim
- · Cumulative GPA: 3.89/4.3

Seoul National University, Korea, Republic of

03/10 - 02/15

B.S. in Electrical and Computer Engineering

- · Thesis: Adaptive Formation Control for Multi-agent Systems
- · Advisor: Professor Hyungbo Shim
- · GPA: 3.82/4.3 (cumulative) 3.95/4.3 (in major) Cum Laude

EXPERIENCE

Sigma Intelligence, Seoul National University

04/10 – present

member of robotics club

· Served as education director

03/11 - 02/12

made a curriculum of annual education

taught AVR/ MATLAB programming to freshmen

· Served as club vice president

03/12 - 02/13

Assisted club president with managing clubs

PUBLICATIONS

International Journals

Sangil Lee and H. Jin Kim, "Real-time Robust Visual Odometry via Rigid Motion Segmentation for Dynamic Environments," *IEEE Robotics and Automation Letters*, 2017. (under review)

International Conferences

Sangil Lee and H. Jin Kim, "Real-time Rigid Motion Segmentation using Grid-based Optical Flow," System, Man, and Cybernetics, IEEE International Conference on, 2017.

Sangil Lee, P. Jin Kim, Changhyeon Kim, and H. jin Kim, "Depth-based Direct Visual Odometry for Stereo Camera," Asia-Pacific International Symposium on Aerospace Technology, 2016.

Sangil Lee, Seung-jae Lee, Jaehyun Park, and H. Jin Kim, "Exposure Correction and Image Blending for Planar Panorama Stitching," *International Conference on Control, Automation and Systems*, 2016. (Outstanding Paper Award)

Sangil Lee and H. Jin Kim, "Detection of 3-Dimensional Textured Object without Depth Information," 14th International Conference on Control, Automation and Systems, Korea, October 13-16, 2015.

Domestic Journals

Sangil Lee, P. Jin Kim, Changhyeon Kim, Hyeonbeom Lee, and H. Jin Kim, "Survey on Visual Odometry Technology for Unmanned Systems," *Journal of Institute of Control, Robotics, and Systems*, 23(6):424-431, 2017.

Domestic Conferences

Sangil Lee and H. Jin Kim, "Image Stitching for 2-D Global Mapping," 31st Institute of Control, Robotics and Systems Annual Conference, March 10-11, 2016.

Sangil Lee and H. Jin Kim, "Hexa-rotors 3-dimensional Position Control based on Spiral Potential Function with Collision Avoidance," *The Korean Society for Aeronautical & Space Sciences Fall Conference*, November 18-20, 2015.

HONORS, AWARDS, SCHOLARSHIPS

\cdot Outstanding Paper Award of the Ministry of Trade, Industry, and Energy	10/16
· BK21 plus PhD Fellowship Scholarship	03/15 - 02/16
· First prize in an 2012 International Capstone Design Fair	01/12

SKILLS

Computer Languages	C/C++, Matlab, Simulink, ROS, LabVIEW, Markdown
Tools	Vim, Git, Photoshop, Basic OrCAD, Solidworks
Hardware	AVR, Arduino, Arm processor, Basic spartan FPGA board programming