

Sang-Eun Lee

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EDUCATION

Ph.D., Kyoto University <i>Computer Vision Lab., Advisor: Ko Nishino</i>	Kyoto, JP Sep. 2019 – Present
M.Sc. Kyushu Institute of Technology <i>Computational and Cognitive Brain Science Lab., Advisor: Keiichi Horio</i>	Kyushu, JP Apr. 2012 – Mar. 2014
B.S. Changwon National University <i>School of Control and Instrumentation Engineering, College of Mechatronics</i>	Gyeongsangnam-do, KR Mar. 2006 – Aug. 2011
Changwon Machine Technical High School <i>Department of Mechatronics</i>	Gyeongsangnam-do, KR Mar. 2003 – Feb. 2006

EXPERIENCE

Computer Vision Lab. (Ph.D.) <i>Kyoto University</i> <ul style="list-style-type: none">Research for multi-camera calibration	Oct. 2019 – Present Kyoto, jp
Center for Embedded Software Technology (Technical Research Personnel) <i>Kyungpook National University, Advisor: Soon Ki Jung</i> <ul style="list-style-type: none">Research for visual SLAMProject for road lane detection and trackingProject for hospital guidance system by fusion vSLAM and IMUDevelopment of Android application for electronic shelf label (ESL)	Apr. 2014 – July 2018 Daegu, KR
Computer Aided Engineering team (Intern) <i>Toyota Body Research & Development</i> <ul style="list-style-type: none">Project for analyzing torsion bars for vehicle's trunk	Sep. 2012 – Oct. 2012 Kagoshima, JP
Computational and Cognitive Brain Science Lab. (M.Sc.) <i>Kyushu Institute of Technology</i> <ul style="list-style-type: none">Research for the human trackingProject for RoboCup@Home, role in the task of <i>Follow me</i>	Apr. 2012 – Mar. 2014 Kyushu, JP
Imaging Media Research Center (Intern) <i>Korea Institute Science and Technology, Advisor: Ig-Jae Kim</i> <ul style="list-style-type: none">Project for gesture recognition and interaction	Oct. 2011 – Mar. 2012 Seoul, KR
Visual Sensing Lab. (Exchange Student & Global Joint Project) <i>Kyushu Institute of Technology</i> <ul style="list-style-type: none">Research for pedestrian detection and tracking algorithm	Apr. 2010 – Mar. 2011 Kyushu, JP

PUBLICATIONS

Journal Articles

- Sang-Eun Lee, Ko Nishino, and Shohei Nobuhara. "Spatiotemporal Multi-Camera Calibration using Freely Moving People". In: *IEEE Robotics and Automation Letters* 10.5 (2025). with ICRA 2026 Presentation, pp. 4818–4825
- Sang-Eun Lee, Keisuke Shibata, Soma Nonaka, Shohei Nobuhara, and Ko Nishino. "Extrinsic Camera Calibration From a Moving Person". In: *IEEE Robotics and Automation Letters* 7.4 (2022). with IROS 2022 Presentation, pp. 10344–10351
- Sangeun Lee and Keiichi Horio. "Human Tracking with Particle Filter Based on Locally Adaptive Appearance Model". In: *Journal of Signal Processing* 18.4 (2014), pp. 229–232

In Conference Proceedings

- Sang-Eun Lee, Ko Nishino, and Shohei Nobuhara. “SteerPose: Simultaneous Extrinsic Camera Calibration and Matching from Articulation”. In: *British Machine Vision Conference (BMVC25)*. (Accepted)
- Sang-Eun Lee, Ko Nishino, and Shohei Nobuhara. “SteerPose: Simultaneous Extrinsic Camera Calibration and Matching from Articulation”. In: *CV4Animals: Computer Vision for Animal Behavior Tracking and Modeling In conjunction with CVPR25*. (Unpublished Work Track)
- Keisuke Shibata, Sangeun Lee, Shohei Nobuhara, and Ko Nishino. “Consistent 3D Human Shape from Repeatable Action”. In: *Proceedings of the IEEE/CVF Conference on Computer Vision and Pattern Recognition Workshops CVPRW’21*. 2021, pp. 1770–1779
- Sang-Eun Lee, Jang Jae Seok, Eun-Ju Yang, Dae-Wha Seo, and Soon Ki Jung. “Loop-Closure Detection using Location-based Image Retrieval”. In: *The 22nd Korea-Japan Joint Workshop on Frontiers of Computer Vision (FCV2016)*. 2016, pp. 351–355
- Sangeun Lee and Keiichi Horio. “Human Tracking based on Particle Filter with Adaptive Local Descriptor”. In: *2013 International Conference on Signal-Image Technology & Internet-Based Systems*. IEEE. 2013, pp. 207–211
- Sangeun Lee and Keiichi Horio. “Human Tracking using Particle Filter with Reliable Appearance Model”. In: *The SICE Annual Conference 2013*. IEEE. 2013, pp. 1418–1424

SKILLS

Languages: Python, C++, PLC

Developer Tools: Git, Docker, Singularity, ROS, LaTeX, Ubuntu

Libraries: PyTorch, NumPy, SciPy, OpenCV, PCL

ACHIEVEMENTS AND HONOR

Korean Government Scholarship for Studying Abroad	Oct. 2019 - Sept. 2022
DYNAVIS Best Paper Award Keisuke Shibata, Sangeun Lee , Shohei Nobuhara and Ko Nishino	June 2021
VRSJ2016 Tracking Competition Sang-Eun Lee , Jae Seok Jang, Chiatra G.N., Yoon Suk Kwak, Rinara Woo, Eun-Ju Yang, Soon Ki Jung	Sept. 2016
ISMAR 2015 Tracking Competition Award (On-Site Category) Sang-Eun Lee , Jae Seok Jang, Eun-Ju Yang, Soon Ki Jung, Dae-Wha Seo	Oct. 2015
NCSP’ 14 Student Paper Award Sang-Eun Lee , Keiichi Horio	Feb. 2014

ACTIVITIES

Volunteer for ROSCON2016, Open Source Robotics Foundation <ul style="list-style-type: none">• Assistance for organizing conference	Oct. 2017
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LANGUAGES

Korean: Native Language

Japanese: Advanced level, JPT 815/990 (2019.02.17)

English: Upper Intermediate level, TOEIC: 850/990 (2019.05.26)