

Inchul Kim

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Experience

PTERS Company

Software engineer

Seoul, South Korea

2021–2022

GILab

Research assistant

Zaragoza, Spain

2017–2018

Awards and Honors

2022–: National Scholarship: Full Tuition for Graduate Study, Korean Government

2017: KAIST Breakthroughs, KAIST

2015–2016: National Scholarship: Full Tuition for Graduate Study, Korean Government

2013–2014: National Science and Engineering Undergraduate Scholarship, Korean Government

Education

Korea Advanced Institute of Science and Technology (KAIST)

PhD candidate, Computer Science

Advisor: Min H. Kim

Daejeon, South Korea

2022–

Korea Advanced Institute of Science and Technology (KAIST)

MSc, Computer Science

Advisor: Min H. Kim

Daejeon, South Korea

2015–2017

Hanyang University

BSc, Computer Science

Summa Cum Laude

Seoul, South Korea

2009–2015

Academic Service

Reviewer: IEEE CVPR 2024

Publications

Journal Publications

- [1] Ana Serrano, Incheol Kim, Zhili Chen, Stephen DiVerdi, Diego Gutierrez, Aaron Hertzmann, and Belén Masiá. **Motion Parallax for 360° RGBD Video**. *IEEE Transactions on Visualization and Computer Graphics (TVCG)*, 25(5):1817–1827, 2019. [[project](#)] [[pdf](#)].
- [2] Seung-Hwan Baek, Incheol Kim, Diego Gutierrez, and Min H. Kim. **Compact Single-Shot Hyperspectral Imaging Using a Prism**. *ACM Transactions on Graphics (Proc. SIGGRAPH Asia)*, 36(6):217:1–12, 2017. [[project](#)] [[pdf](#)].

Peer-reviewed Conference Publications

- [3] Kiseok Choi, Inchul Kim, Dongyoung Choi, Julio Marco, Diego Gutierrez, and Min H. Kim. **Self-Calibrating, Fully Differentiable NLOS Inverse Rendering**. In *Proceedings of ACM SIGGRAPH Asia 2023*, December 2023. [[project](#)] [[pdf](#)].
- [4] Donggun Kim, Hyeojoong Jang, Inchul Kim, and Min H. Kim. **Spatio-Focal Bidirectional Disparity Estimation from a Dual-Pixel Image**. In *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, June 2023. [[project](#)] [[pdf](#)].
- [5] Incheol Kim and Min H. Kim. **Non-local Haze Propagation with an Iso-Depth Prior**. In *Computer Vision, Imaging and Computer Graphics – Theory and Applications*, pages 213–238. Springer International Publishing, 2019. [[project](#)] [[pdf](#)].
- [6] Incheol Kim and Min H. Kim. **Dehazing using Non-local Regularization with Iso-depth Neighbor-Fields**. In *Proceedings of the 12th International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications (VISIGRAPP 2017) - Volume 4: VISAPP, Porto, Portugal, February 27 - March 1, 2017*, pages 77–88, 2017. [[project](#)] [[pdf](#)].

Patents

- [7] Min H. Kim, Seung-Hwan Baek, and Incheol Kim. **Method for reconstructing hyperspectral image using prism and system therefor**, 2018. US20190096044A1 [[link](#)].
- [8] Min H. Kim, Seung-Hwan Baek, and Incheol Kim. **Method and system for reconstructing hyperspectral image by using prism**, 2018. WO2019059632A1 [[link](#)].
- [9] Min H. Kim, Seung-Hwan Baek, and Incheol Kim. **Method for reconstructing hyperspectral image using prism and system therefor**, 2018. EP3460427A1 [[link](#)].