

Jongho Lee

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Research Interests

Computational Imaging, Computer Vision, Machine Learning

Education

Ph.D. in Computer Sciences, University of Wisconsin-Madison, USA Thesis: Shedding Light on the Scene: Scene Understanding with Active Computational Imaging Advisor: Prof. Mohit Gupta	2022
M.S. in Electrical Engineering and Computer Science, Gwangju Institute of Science and Technology, South Korea Thesis: Non-blind Image Deconvolution with Adaptive Regularization Advisor: Prof. Yo-Sung Ho	2010
B.S. in Electronic Engineering, Ajou University, South Korea	2006

Work Experience

Research Associate, University of Wisconsin-Madison	2022 - Present
Research Assistant, University of Wisconsin-Madison	2016 - 2022
Researcher, Korea Institute of Science and Technology	2010 - 2013
Research Assistant, Gwangju Institute of Science and Technology	2008 - 2010

Awards and Honors

Student Travel Grant from the International Conference on Computer Vision (ICCV)	2019
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Best Paper Award at Korea Multimedia Society Conference	2010
Government-Sponsored Scholarship from the Korean Government	2008 - 2010
Merit-Based Scholarship awarded by Ajou University	2000, 2001

Publications

Light-in-Flight for a World-in-Motion

Jongho Lee, Ryan J. Suess, Mohit Gupta

IEEE ECCV 2024

Mitigating AC and DC Interference in Multi-ToF-Camera Environments

Jongho Lee, Mohit Gupta

IEEE Trans. on Pattern Analysis and Machine Intelligence (**IEEE TPAMI 2023**) (IF: 23.6)

CASPI: Collaborative Photon Processing for Active Single-Photon Imaging

Jongho Lee, Atul Ingle, Jenu V. Chacko, Kevin W. Eliceiri, Mohit Gupta

Nature Communications 2023 (IF: 16.6)

When Two Cameras Are a Crowd (Understanding and Handling Interference Across Multiple Active Cameras)

Jongho Lee, Mohit Gupta, Bhuvana Krishnaswamy, Suman Banerjee

Communications of the ACM 2023 (IF: 22.7)

Blocks-World Cameras

Jongho Lee, Mohit Gupta

IEEE CVPR 2021, *oral presentation (acceptance rate: 4.2%)

Stochastic Exposure Coding for Handling Multi-ToF-Camera Interference

Jongho Lee, Mohit Gupta

IEEE ICCV 2019, *oral presentation (acceptance rate: 4.3%)

Coding Optimization for Fast Fluorescence Lifetime Imaging

Jongho Lee, Jenu V. Chacko, Bing Dai, Syed Azer Reza, Abdul Kader Sagar, Kevin W. Eliceiri, Andreas Velten, Mohit Gupta

ACM Trans. on Graphics (**ACM TOG**), presented at **SIGGRAPH 2019**

Web Image-Based Super-Resolution

Jongho Lee, Sang Chul Ahn, Hwasup Lim, Ig-Jae Kim, Jaewon Kim, Hyoung-Gon Kim

IEEE ICPR 2012, *oral presentation (acceptance rate: 16.1%)

Putting Real-World Objects into Virtual World: Fast Automatic Creation of Animatable 3D Models with a Consumer Depth Camera

Hwasup Lim, Seong-Oh Lee, **Jong-Ho Lee**, Min-Hyuk Sung, Young-Woon Cha, Hyoung-Gon Kim, Sang Chul Ahn

IEEE ISUVR 2012, *Best Paper Award

High-Quality Non-Blind Image Deconvolution with Adaptive Regularization

Jongho Lee, Yo-Sung Ho

Journal of Visual Communication and Image Representation (**JVCIR** 2011) (IF: 2.6)

Skin Tone Enhancement and Background Change for Mobile Phones

Jongho Lee, Jin Heo, Yo-Sung Ho

IEEE Trans. on Consumer Electronics (**IEEE TCE** 2010) (IF: 4.3)

Patents

Systems, Methods, And Media For Improving Signal-to-noise Ratio in Single-photon Data

Inventors: **Jongho Lee**, Mohit Gupta, **US Patent 11927700**

Systems, Methods, And Media For Directly Recovering Planar Surfaces In A Scene Using Structured Light

Inventors: **Jongho Lee**, Mohit Gupta, **US Patent 11398085**

Systems, Methods, And Media For Stochastic Exposure Coding That Mitigates Multi-Camera Interference In Continuous Wave Time-Of-Flight Imaging

Inventors: **Jongho Lee**, Mohit Gupta, **US Patent 11474249**

Method And System For Reconstructing Image Having High Resolution

Inventors: **Jongho Lee**, Jaewon Kim, Ig-Jae Kim, Sang Chul Ahn, **US Patent 9092456**

Teaching Experience

Teaching Assistant, CS 766 **Computer Vision**, University of Wisconsin-Madison Spring 2016

Teaching Assistant, CS 760 **Machine Learning**, University of Wisconsin-Madison Fall 2015

Teaching Assistant, CS 760 **Machine Learning**, University of Wisconsin-Madison Spring 2015

Teaching Assistant, CS 760 **Machine Learning**, University of Wisconsin-Madison Fall 2014