

Jongho Lee

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Research Interests

Computer Vision, Computational Imaging, Computational Photography, Machine Learning

Education

Ph.D. in Computer Sciences, 2022
University of Wisconsin-Madison, USA
Thesis: Scene Understanding with Active Computational Imaging
Advisor: Prof. Mohit Gupta

M.S. in Electrical Engineering and Computer Science, 2010
Gwangju Institute of Science and Technology, South Korea
Thesis: Non-blind Image Deconvolution with Adaptive Regularization
Advisor: Prof. Yo-Sung Ho

B.S. in Electronic Engineering, 2006
Ajou University, South Korea

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

Best Paper Award in Korea Multimedia Society Conference 2010

Government Sponsored Scholarship from Korean Government 2008 - 2010

Publications

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)

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)

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

Teaching Experience

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

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

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

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