Salman Siddique Khan

Contact Information

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Research Interest

My field of research is Computational Imaging which incorporates designing new imaging systems and computational techniques that extend the capabilities of conventional cameras. In particular, I am interested in developing algorithms based on Optics, Signal Processing and Machine Learning that make these computational imaging systems work.

Education

2018-Present	Ph.D.,**Indian Institute of Technology Madras**, India Department: Electrical Engineering Advisor: Prof. Kaushik Mitra
2014-2018	BTech(Honors), **National Institute of Technology Rourkela**, India Department: Electronics and Instrumentation Engineering

Publications

Journal Papers

- **Salman S. Khan**, Varun Sundar, Vivek Boominathan, Ashok Veeraraghavan, Kaushik Mitra, **FlatNet: Towards Photorealistic Scene Reconstruction from Lensless Measurements**, IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI) 2020.

Conference Papers

- **Salman S. Khan**, Adarsh V.R., Vivek Boominathan, Jasper Tan, Ashok Veeraraghavan, Kaushik Mitra, **Towards Photorealistic Reconstruction of Highly Multiplexed Lensless Images**, IEEE International Conference on Computer Vision (ICCV) 2019, Seoul, Korea. **(Oral)**
- Jasper Tan, **Salman S. Khan**, Vivek Boominathan, Jeffrey Byrne, Richard Baraniuk, Kaushik Mitra, Ashok Veeraraghavan, **CAnOPIC: Pre-Digital Privacy-Enhancing Encodings for Computer Vision**, IEEE International Conference on Multimedia and Expo (ICME) 2020, London, UK. **(Oral)**

Teaching Experience

- Teaching Assistant **EE 6132 Modern Computer Vision,** IIT Madras Fall 2020
- Teaching Assistant **EE 1101 Signals and Systems,** IIT Madras Spring 2020
- Teaching Assistant **EE 5176 Computational Photography,** IIT Madras Spring 2019

Talks

- "Towards Photorealistic Reconstruction of Highly Multiplexed Lensless Images", IEEE International Conference on Computer Vision (ICCV) 2019
- "Deep Photorealistic Scene Reconstruction from Lensless Images", Vision India, NCVPRIPG 2019

Achievements And Awards

- Awarded the Qualcomm Innovation Fellowship India 2020-21.
- Awarded Google Travel Grant to attend ICCV 2019 at Seoul, South Korea.
- National Finalist in NIYANTRA 2017 Annual Student Design Contest
- National Finalist in e-Yantra 2016 Robotics Challenge

Professional Service

Reviewer (Journal)

- OSA Optics Express
- OSA Continuum

Work Experience

May-Nov 2019	Research Associate at Rice University, Houston, Texas, USA Worked on design of privacy preserving cameras using learning based techniques
Summer 2017	Summer Intern at Indian Institute of Space Science and Technology, Trivandrum, India Developed active learning based image classification and object detection algorithms.
Summer 2016	Summer Intern at Indian Statistical Institute, Kolkata, India Worked on segmentation of histopathological images