Graduate/Undergraduate Research in Computational Imaging

Summary of project(s):

tldr; For superhuman driving, we need superhuman vision.

The Kadambi Research Group is looking for talented graduate and undergraduate students to work on "computational imaging". Computational imaging systems are designed by jointly combining optical capture and post-processing algorithms. This distinct co-design yields new classes of imaging systems that now power applications like autonomous driving, microscopy, digital imaging, virtual reality and much more. We will focus specifically on designing smart imaging systems that could potentially transform autonomous driving.

Website: http://media.mit.edu/~achoo/

Funding: Undergrads (volunteer), MS students (volunteer, with potential later on for funding), PhD students (case-by-case).

Required/recommended courses:
 Required: None
 Recommended: Computer Vision, Optics, Optimization, Machine Learning

Required/recommended skills or experience:
 Required: Priority for graduate students looking for a thesis topic. Undergraduates must have exceptional qualifications and time to commit to research.
 Recommended: Computer Vision, Optics, Optimization, Machine Learning

Date Position Available: ongoing

How to apply: Please pick 1 paper from Prof. Achuta Kadambi's website and write three sentences each on limitations, extensions, and applications. Please email these nine or so sentences and your CV to Prof. Kadambi. Undergrads should also send an unofficial transcript to Prof. Kadambi.

Contact: achuta@alum.mit.edu

Listing expires on: Never

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