

Interdisciplinary Seminar

“Research Focus and Activities in the Computational Imaging Laboratory of UCF”

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Abstract:

This talk is meant to be a "teaser" talk to initiate possible collaborations. I will introduce the Computational Imaging Laboratory (CIL <http://cil.cs.ucf.edu>) of the School of EECS which I founded in 2002. The research in CIL is funded by federal agencies such as NSF, NASA, and ONR and industry, and is naturally focused on different aspects of imaging technologies, and processing and understanding of visual data. CIL's main research focus is the confluence of computer vision, image processing, and computer graphics. Most problems in these areas are indeed inverse problems and hence largely ill-posed and difficult to mathematically model and solve. We cover a broad spectrum of problems such as camera auto-calibration, action recognition, image registration, super-resolution, solution to the light transport integral, and many others. My goal is to present a sample of these problems, describe the projects under which these are currently studied, and illustrate application areas, e.g. medical imaging, surveillance and security systems, augmented reality, space science, etc.

DATE: Friday, March 28, 2008
TIME: 2:30pm – 3:30pm
PLACE: Math and Physics Building, Room 233