OCTOBER 14-18, 2019

Computational Imaging

This workshop will serve as a venue for presenting and discussing recent advances and trends in the growing field of computational imaging, where computation is a major component of the imaging system. Research on all aspects of the computational imaging pipeline from data acquisition (including non-traditional sensing methods) to system modeling and optimization to image reconstruction, processing, and analytics will be discussed, with talks addressing theory, algorithms and mathematical techniques, and computational hardware approaches for a variety of imaging modalities and applications such as MRI, Tomography, Ultrasound, Microscopy, Dynamic imaging, Functional imaging, Optics, Computational Photography, Radar, Lidar, Astronomical imaging, Hybrid imaging modalities, and novel and extreme imaging systems. Some talks would also explore the expanding role of computational imaging in industrial imaging applications.

ORGANIZERS
Saiprasad Ravishankar, Michigan State University
Stanley Ho Chan, Purdue University
Jeff Fessler, University of Michigan
Justin Haldar, University of Southern California
Ulugbek Kamilov, Washington University
Rebecca Willett, University of Chicago
Brendt Wohlberg, Los Alamos National Laboratory

TUTORIAL SPEAKERS
Sergio Goma, QUALCOMM
Brendt Wohlberg, Los Alamos National Laboratory

SPEAKERS
Charles A. Bouman, Purdue University
Katie Bouman, California Institute of Technology
Yoram Bresler, University of Illinois at Urbana-Champaign
Mujdat Cetin, University of Rochester
Marvin Doyley, University of Rochester
Mario A.T. Figueiredo, Instituto Superior Tecnico
Alessandro Foi, Tampere University of Technology
Orazio Gallo, NVIDIA Corporation
Vivek K. Goyal, Boston University
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Joseph W. Stayman, Johns Hopkins University
Ashok Veeraraghavan, Rice University
Laura Waller, University of California, Berkeley
Ge Wang, Rensselaer Polytechnic Institute
Ming Yan, Michigan State University
Jong Chul Ye, Korea Advanced Institute of Science and Technology (KAIST)
Wotao Yin, University of California, Los Angeles
Zhizhen Zhao, University of Illinois at Urbana-Champaign