Tuesday, October 02, 2018

WEBINARS

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Computational Imaging: Using Hardware and Software Together to Design High-Resolution, Light-Efficient Imaging Systems

Tuesday, October 16, 2018 1:00 PM - 2:00 PM EDT

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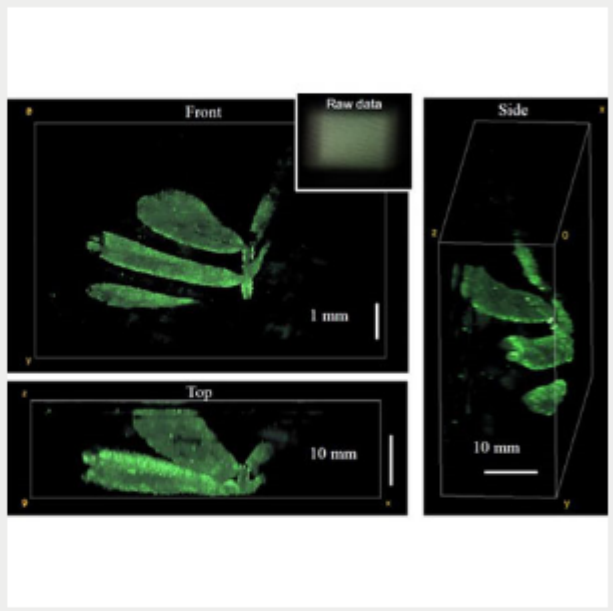
About This Webinar

This webinar will discuss computational imaging - a new generation of cameras that integrates computers as part of an imaging system, where optical imaging systems and image processing systems work together to achieve things that neither can do alone. For example, one can digitally refocus images, enhance resolution, or recover 3D. Computational imaging also provides the ability to reconstruct images that are much larger than the amount of data captured.



Presenter Laura Waller of UC Berkeley will explain how computational imaging works and discuss its capabilities, such as 3D image acquisition, and its advantages. She will introduce the compact, lensless computational camera built by her lab, called DiffuserCam, which uses an algorithm to reconstruct 3D images computationally. Waller will also discuss applications for computational imaging, including microscopy and phase imaging for biological samples and industrial applications such as lithography.

About the presenter:
Laura Waller is an associate professor of electrical engineering and head of the Computational Imaging Lab at University of California, Berkeley. She holds the Ted Van Duzer Endowed Professorship and is a senior fellow at the Berkeley Institute of Data Science (BIDS). Waller was a postdoctoral researcher and lecturer of physics at Princeton University from 2010-2012 and received B.S., M.S. and Ph.D. degrees in electrical engineering and computer science from MIT in 2004, 2005, and 2010, respectively. She is a Moore Foundation data-driven investigator, Bakar fellow, Chan-Zuckerberg Biohub investigator, SPIE Early Career Achievement awardee, and Packard fellow.

Who should attend:
Anyone who is interested in the state of the art in camera tools and techniques will benefit from this presentation. Optics engineers and designers as well as software engineers interested in lighting and imaging should attend. Also, researchers and scientists interested in new techniques for microscopy and phase imaging should attend.

Read about Waller's work in the area of lenseless imaging: Lensless Cameras May Offer Detailed Imaging of Neural Circuitry, appearing in BioPhotonics, August 2018 issue.

Mark Your Calendar

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Required: Windows® 10, 8, 7, Vista, XP or 2003 Server

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Mobile attendees
Required: iPhone® , iPad® , Android™ phone or tablet, Windows 8 or Windows Phone 8

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