

Department Lecture Series



Is Computational Imaging the future of Photography?

Dr. Rajiv Laroia

**Chief Technology Officer &
Co-founder, Light
Palo Alto, CA**

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Abstract:

In this talk we start by describing the L16 computational camera developed by Light, a California based startup. We will discuss the advantages and shortcomings of computational imaging for photography. One of the uses/byproducts of computational photography is the generation of depth map by only using passive optics. Most other techniques of obtaining depth involve active transmission. We will discuss the potential uses of the depth map for autonomous navigation and even machine vision.

Bio:

Rajiv is the CTO and co-founder of Light, a camera company making beautiful photography more accessible than ever before. Rajiv brings deep technical expertise and an understanding of current market challenges, resulting in a proven ability to bring industry-changing products and solutions to market. Previously, Rajiv was the CTO and founder of Flarion Technologies, which developed the basis of LTE technology that powers today's mobile connectivity. In 2006, Flarion was acquired by Qualcomm.

Additionally, Rajiv was an Entrepreneur in Residence at Charles River Ventures, Senior Vice President and CTO of Sonus Networks and Senior Vice President of Technology at Qualcomm Incorporated (Nasdaq: QCOM). Prior to Flarion, Rajiv spent eight years at Lucent Technologies Bell Laboratories and led Bell Labs' Digital Communications Research Department in the Wireless Research Center.

Rajiv has coauthored the book, OFDMA Mobile Broadband Communications: A Systems Approach with Dr. Junyi Li and Dr. Xinzhou Wu. He has more than 316 issued patents and more than 356 pending. Rajiv is a proud Fellow of the IEEE and was inducted into the Innovations Hall of Fame, University of Maryland, College Park. He has also won numerous industry awards including the IIT Delhi Distinguished Alumni Award, the Distinguished Alumni Award from the EE Department, University of Maryland and the IEEE Industrial Innovation Award.

Rajiv received his Ph.D. and master's degrees from the University of Maryland, College Park and a bachelor's degree from the Indian Institute of Technology, Delhi, all in electrical engineering.

(RECEPTION FOLLOWING: SCOTT HALL ATRIUM)