Dr. Ramesh Raskar
MIT Media Lab

IMAGING SCIENCE HALL OF FAME KEYNOTE SPEAKER

Advances in Computational Photography

Though revolutionary in many ways, digital photography is essentially electronically implemented film photography. By contrast, computational photography exploits plentiful, low-cost computing and memory; new kinds of digitally enabled sensors; and optics, probes, smart lighting, and communication to capture information far beyond just a simple set of pixels. It promises a richer, multilayered, visual experience that may include depth, fused photo-video representations, or multispectral imagery. Raskar will discuss and demonstrate advances he is working on in the areas of generalized optics, sensors, illumination methods, processing, and display. Raskar will also describe how computational photography will enable us to create images that break from traditional constraints to retain more fully our fondest and most important memories, keep personalized records of our lives, and extend both the archival and the artistic possibilities of photography.

4PM, WEDNESDAY, DECEMBER 15, 2010
Carlson Auditorium, Center for Imaging Science (Bldg. 76)