

# BNQUET KEYNOTE TALK

Tuesday, November 18, 2025, at 8:00 pm

## Computational Imaging and Future Cameras

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Columbia University

**Abstract:** Computational imaging uses new optics to capture a coded image, and an appropriate algorithm to decode the captured image. This approach has enabled mobile devices to produce images that are rich, immersive and interactive. In this talk, we will show examples of computational cameras that are transforming the way visual information is captured, communicated and used by both humans and machines.



**Speaker Bio-Sketch:** Shree K. Nayar is the T. C. Chang Professor of Computer Science at Columbia University. He heads the Columbia Imaging and Vision Laboratory (CAVE), which develops computational imaging and computer vision systems. Nayar received his PhD degree in Electrical and Computer Engineering from the Robotics Institute at Carnegie Mellon University. For his research and teaching he has received several honors including the David Marr Prize (1990 and 1995), the David and Lucile Packard Fellowship (1992), the National Young Investigator Award (1993), the NTT Distinguished Scientific Achievement Award (1994), the Keck Foundation Award for Excellence in Teaching (1995), the Columbia Great Teacher Award (2006), the Carnegie Mellon Alumni Achievement Award (2009), Sony Appreciation Honor (2014), the Columbia Engineering Distinguished Faculty Teaching Award (2015), the IEEE PAMI Distinguished Researcher Award (2019), the Funai Achievement Award (2021), and the Okawa Prize (2022). For his contributions to computer vision and computational imaging, he was elected to the National Academy of Engineering in 2008, the American Academy of Arts and Sciences in 2011, and the National Academy of Inventors in 2014.