

R.I.T

College of Science

Chester F. Carlson

Center for **IMAGING** SCIENCE

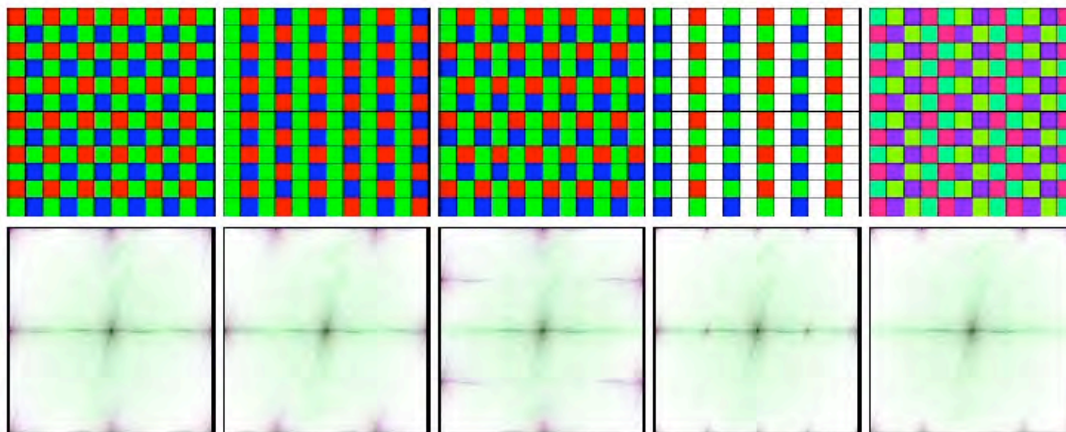
Seminar Series

Enhanced Spatial Resolution for Capture and Display of Images

Keigo Hirakawa

Postdoctoral Research Fellow

Department of Statistics, Harvard University



First, we present a solution to the problem of optimal color filter array design that jointly minimizes spatial and spectral information loss. We look at the degradation of the image sensor measurements due to photon and electron leakage. This so-called "cross-talk" is expected to become more severe as sensor electronics continue to shrink. We show that an analysis of the cross-talk mechanism is surprisingly straightforward and leads to a simple color correction scheme.

4pm, Wed, Sep. 10, 2008

Auditorium of the Center for Imaging Science

www.cis.rit.edu/seminar

for up-to-date seminar schedule, video archives and abstracts.