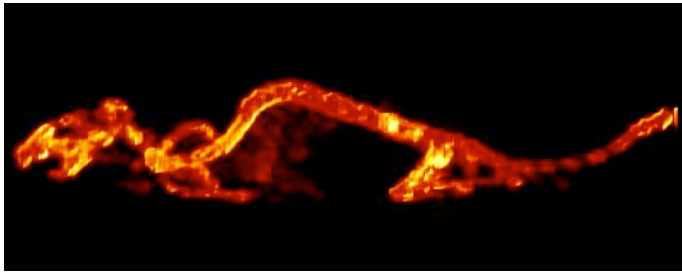


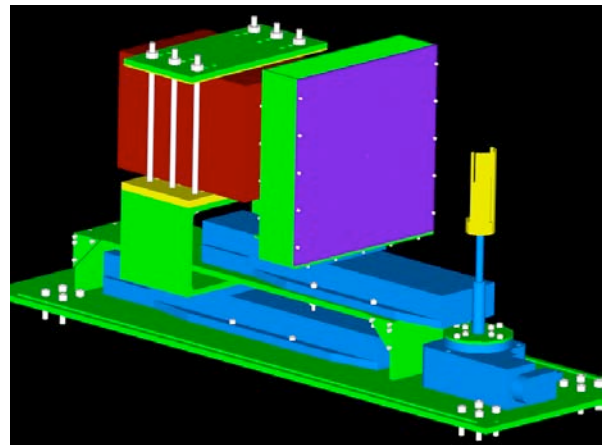
R.I.T. College of Science
Chester F. Carlson
Center for **IMAGING** SCIENCE
Seminar Series

Task-Based Assessment of Image Quality



Matthew Kupinski

*Assistant Professor in Optical Sciences
and Radiology
University of Arizona*



4pm, Wed., Dec. 6, 2006

Auditorium of the Center for Imaging Science

Much recent research in medical imaging has dealt with developing imaging systems or image processing techniques to produce "better" images. To define a "better" image we advocate a task-based, objective approach for assessing image quality. This requires both specifying the use of the images and the observer. I will present an overview of research projects that look at task-based measures as an aid in the design of imaging systems and in the implementation of image-processing filters and reconstruction algorithms. Examples in medical imaging and small-animal imaging will be presented. It is my hope that this presentation will underscore the broad importance of these measures.

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Speaker Bio

Matthew A. Kupinski is an Assistant Professor in Optical Sciences and Radiology at the University of Arizona. He earned his Ph.D. from the University of Chicago in 2000 and joined the faculty at Arizona in 2002. His research interests include imaging science, image-quality assessment, and bio-medical imaging.