

## Computer vision and optics in the study of fine art

Speaker:

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Ricoh Innovations



New rigorous computer vision algorithms have shed light on a number of problems and controversies in the history and interpretation of fine art. Rigorous illumination estimation and shape-from-shading methods can reveal in new ways the accuracy and the working methods of masters such as Vermeer, Georges de la Tour and Caravaggio, including claims they traced projected images. Computer methods can dewarp the images depicted in convex mirrors depicted in paintings such as Johannes van Eyck's *Arnolfini portrait* and Parmigianino's *Self portrait in a convex mirror* to reveal new views into artists' studios and shed light on their working methods. This colloquium will explore how rigorous computer image analysis and optical analysis of art is changing our understanding of paintings and drawings, also featuring works by Vermeer, Lotto, Memling, and several others.

**February 10, 2011**

4:30 pm Jadwin Hall A-10

Host: Paul Steinhardt

Tea in 218 Jadwin Hall at 4 p.m.