



The University of Chicago
Departments of Computer Science,
Mathematics, and Statistics

Scientific and Statistical Computing Seminar

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Tight-frame Approach for Image Processing

FRIDAY, April 6, 2012, at 3:30 PM
133 Eckhart Hall, 5734 S. University Avenue.

ABSTRACT

In many problems in image processing, the observed data sets are often incomplete in the sense that features of interest in the image are missing partially or corrupted by noise. The recovery of missing data from incomplete data is an essential part of any image processing procedures whether the final image is utilized for visual interpretation or for automatic analysis. In this talk, we introduce our tight-frame algorithm first for missing data recovery. Then we illustrate how to apply the method to different image processing applications such as: inpainting, super-resolution image reconstruction, video enhancement, and segmentation.

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