1056-49-695 **Andrea Bertozzi*** (`bertozzi@math.ucla.edu`), Department of Mathematics, UCLA, Los Angeles, CA 90095. *Variational methods for data fusion, segmentation, deblurring, and image inpainting.*

This talk is an overview of several recent methods. They include wavelet Ginzburg-Landau methods (diffuse interface) for inpainting and deconvolution, learning methods for deconvolution, variational wavelet pansharpening, and statistical searching methods for segementation of large datasets. (Received September 16, 2009)