1116-49-2632Andrea Bertozzi* (bertozzi@math.ucla.edu), 520 Portola Plaza, Los Angeles, CA 90095.
Geometric graph-based methods for high dimensional data.

We present recent methods for segmentation of large datasets with graph based structure. The method combines ideas from classical nonlinear PDE-based image segmentation with fast and accessible linear algebra methods for computing information about the spectrum of the graph Laplacian. The goal of the algorithms is to solve semi-supervised and unsupervised graph cut optimization problems. (Received September 22, 2015)