

GlobalSIP 2013

IEEE Global Conference on Signal and Information Processing

Low-Dimensional Models and Optimization in Signal Processing

www.ieeeglobalsip.org/sym/13/LDMOSP

December 3-5, 2013 • Austin, Texas, U.S.A.

Call for Papers

Sparsity, low-rank, and other low-dimensional geometric models have long been studied and exploited in machine learning, signal processing and computer science. For instance, sparsity has made an impact in the problems of compression, linear regression, subset selection, graphical model learning, and compressive sensing. Similarly, low-rank models lie at the heart of a variety of dimensionality reduction and data interpolation techniques. Additionally, manifold models are able to succinctly characterize complex signal classes that exhibit few degrees of freedom.

The goal of this symposium is to showcase recent developments in the formulation of: (i) new low-dimensional models for high-dimensional data that are concise enough to be informative in signal recovery and information extraction, where examples include sparsity, low-rank matrices, and manifold models; (ii) new signal recovery and information extraction algorithms, in particular optimization-based approaches, that promote solutions well-matched to the aforementioned signal models, where examples include greedy and iterative algorithms, optimization solvers, and heuristic methods; and (iii) new applications where where low-dimensional signal models outperform existing signal processing, signal estimation, and data recovery approaches in the computational, fidelity, or measurement requirement realms.

Topics of interest include:

- Dimensionality Reduction
- Algorithms for Signal Processing
- Signal Models
- Signal Processing
- Compressive Sensing

Paper Submission

Paper submission will be online only through the GlobalSIP 2013 website. Papers should be in IEEE two-column format and no longer than 1 page.

Symposia Website

Full details, new updates, and submission instructions can be found on the symposia website, <http://www.ieeeglobalsip.org/sym/13/LDMOSP>

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Important Dates

Paper Submission Deadline	June 15, 2013
Review Results Announce	July 30, 2013
Camera-Ready Papers Due	September 7, 2013

