

SPARS 2017

Lisbon, Portugal, June 5-8, 2017



The **Signal Processing with Adaptive Sparse Structured Representations (SPARS)** workshop aims to bring together people from statistics, engineering, mathematics, and computer science, fostering the exchange and dissemination of new ideas and results, both applied and theoretical, on the general area of sparsity-related techniques and computational methods, for high dimensional data analysis, signal processing, and related applications.

Venue

SPARS 2017 will be held at **Instituto Superior Técnico (IST)**, the engineering school of the University of Lisbon, Portugal.

Call for Papers

Contributions (talks, posters, and demos) are solicited as one-page abstracts, which may extend to a second page in order to include figures, tables and references.

Talks should present recent and novel research results.

We welcome abstract submissions for technological demonstrations of the mathematical topics within our scope.

Topics of interest include (but are not limited to):

- Sparse coding and representations, and dictionary learning
- Sparse and low-rank approximation algorithms
- Compressive sensing and learning
- Dimensionality reduction and feature extraction
- Sparsity measures in approximation theory, information theory, and statistics
- Low-complexity/low-dimensional regularization
- Statistical/Bayesian models and algorithms for sparsity
- Sparse network theory and analysis
- Sparsity and low-rank regularization
- Applications

Visit spars2017.lx.it.pt

Plenary speakers

Yoram Bresler, University of Illinois

Volkan Cevher, École Polytechnique Fédérale de Lausanne

Jalal Fadili, École Nationale Supérieure d'Ingénieurs de Caen

Anders Hansen, University of Cambridge

Gitta Kutyniok, Technische Universität Berlin

Philip Schniter, Ohio State University

Eero Simoncelli, Howard Hughes Medical Institute, NYU

Rebecca Willett, University of Wisconsin

Schedule

Submission deadline (extended): **January 3, 2017**

Notification of acceptance: **March 27, 2017**

Summer School: **May 31- June 2, 2017 (tbc)**

Workshop: **June 5-8, 2017**

Chairs

Mário A. T. Figueiredo, Instituto Superior Técnico

Mark Plumbley, University of Surrey

