IEEE GlobalSIP'16-Call for Papers

IEEE Global Conference on Signal and Information Processing – Washington D.C.
Symposium on Signal and Information Processing over Networks.

General Chairs: Michael G. Rabbat (McGill University) and Antonio G. Marques (King Juan Carlos University)
Technical Program Chair: Gonzalo Mateos (University of Rochester)

Since its first edition in 2013, GlobalSIP has rapidly assumed flagship status within the IEEE Signal Processing Society. The conference is comprised of co-located symposia focused on signal and information processing and up-and-coming signal processing themes. GlobalSIP aims to feature world-class speakers, tutorials, exhibits, and oral and poster sessions. Prospective contributors to the symposium on ``Signal and Information Processing Over Networks'' are invited to submit works that use signal and information processing tools to understand networks and networked behavior, which has emerged as one of the foremost intellectual challenges of the 21st century. Often, networks have intrinsic value and are themselves the object of study. In other instances, the network defines an underlying notion of proximity and the main object of interest is a signal defined on top of the graph, i.e., data associated with the nodes of the network. Under the assumption that the signals are related to the topology of the graph where they are supported, the goal is to develop innovative signal and information algorithms that fruitfully leverage this relational structure, and can make inferences about these relationships when they are only partially observed. The list of applications is vast and spans a wide spectrum of disciplines such as biology, sociology, economics, engineering, or computer science.

Topics of interest related to signal and information processing over graphs and networks include, but are not limited to the following areas:

- Graph signal representations, transforms, and graph filters
- Non-linear graph signal processing
- Statistical graph signal processing
- Prediction and learning in graphs
- Network topology inference
- Network tomography
- Modeling and control of network processes
- Signals in high-order graphs
- Graph algorithms for network data analytics
- Graph-based distributed signal processing algorithms
- Graph-based image and video processing
- Applications to communication, sensor and power networks
- Applications to neuroscience and other medical fields
- Applications to economics and social networks

Researchers working on interdisciplinary fields and those from communities related to Signal Processing are encouraged to submit their results.

Submission of Papers: Prospective authors are invited to submit full-length papers, with up to four pages for technical content including figures and possible references, and with one additional optional 5th page containing only references. Manuscripts should be original (not submitted/published anywhere else) and written in accordance with the standard IEEE double-column paper template. A selection of best papers and best student papers will be made by the GlobalSIP 2016 best paper award committee upon recommendations from the Technical Committee.

Notice: The IEEE Signal Processing Society enforces a "no-show" policy. Any accepted paper included in the final program is expected to have at least one author or qualified proxy attend and present the paper at the conference. Authors of the accepted papers included in the final program who do not attend the conference will be subscribed to a "No-Show List", compiled by the Society. The "no-show" papers will not be published by IEEE on IEEEXplore or other public access forums, but these papers will be distributed as part of the on-site electronic proceedings and the copyright of these papers will belong to the IEEE.

Timeline for paper submission:
June 5, 2016: Paper submission deadline
August 5, 2016: Review results announced
September 5, 2016: Camera-ready papers due

For inquiries and questions please contact the Symposium Chairs: Michael G. Rabbat (michael.rabbat@mcgill.ca), Antonio G. Marques (antonio.garcia.marques@urjc.es), or Gonzalo Mateos (gmateosb@ece.rochester.edu).