

CALL FOR PAPERS

Networks: From Graphs to Rich Data

a workshop in conjunction with

28th Annual Conference on Neural Information Processing Systems (NIPS 2014)

December 12 or 13 (TBD), 2014 Montreal, Quebec, Canada

<http://gdriv.es/networks2014>

Deadline for Submissions: Monday, November 3, 2014

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Overview

Modern technology, including the World Wide Web, telecommunication devices and services, and large-scale data storage, has completely transformed the scale and concept of data in the sciences. Modern data sets are often enormous in size, detail, and heterogeneity, and are often best represented as highly annotated sequences of graphs. Although much progress has been made on developing rigorous tools for analyzing and modeling some types of large, complex, real-world networks, much work still remains and a principled, coherent framework remains elusive, in part because the analysis of networks is a growing and highly cross-disciplinary field.

This workshop aims to bring together a diverse and cross-disciplinary set of researchers, in order to describe recent advances and to discuss future directions for developing new network methods in statistics and machine learning. By network methods, we broadly include those models and algorithms whose goal is to learn the patterns of interaction, flow of information, or propagation of effects in social, biological, and economic systems. We will also welcome empirical studies in applied domains such as the social sciences, biology, medicine, neuroscience, physics, finance, social media, and economics.

Format and Submissions

This is a one-day workshop. The program will feature 4 invited talks, poster spotlights, poster session, and a panel discussion.

We welcome the following types of papers:

1. Research papers that introduce new models or methodology, and/or apply established models/methods to novel domains and data sets;
2. Research papers that explore theoretical and computational issues; or,
3. Position papers that discuss shortcomings and desiderata of current approaches, or propose new directions for future research.

In each of these paper types, we encourage authors to emphasize the role of learning and its relevance to the application domains at hand.

Submissions should be 4-to-8 pages long (with an additional page allowed for references), and adhere to

NIPS format (<http://nips.cc/PaperInformation/StyleFiles>). Please make the author information visible as in the final draft.

Submissions will be accepted through the following website:

<https://easychair.org/conferences/?conf=nips2014networks>

For up-to-date information on the workshop, please check <http://gdriv.es/networks2014>

Deadline for Submissions: Monday, November 3, 2014

Notification of Decision: Thursday, November 6, 2014

Organizers:

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