**Forthcoming Workshops & Conferences (2012-2013)**

*Fall 2013 Conference: November 15, 2013*

**Title:** Information, Instability and Fragility in Networks: Methods and Applications  
**Location:** University of Colorado Boulder

**Sponsors**

- US Comptroller of the Currency  
- AU College of Arts & Sciences  
- XacBank - Mongolia

**Conference Objectives**

The one day conference is organized jointly by the Info-Metrics Institute, American University and the University of Colorado, Boulder.

The recent financial crisis raised the specter of cascading disruptions across financial institutions, due to their growing interconnectedness and the speed at which disruptions may propagate across them.

Quantitative "Connectionist" research in the physical sciences, engineering and information theory has modeled analogous phenomena, using techniques that are less familiar to economists, financial researchers and regulators and social scientists in general.

This conference will bring the seemingly disparate researchers together, in order to share ideas and jump start future collaborations.

Early researchers coped with the limited micro-level data about large networks by adopting information-theoretic estimation techniques (e.g. the maximum entropy method).  
*The conference is especially interested in papers employing information-theoretic, Bayesian techniques for additional purposes.*

The conference organizers encourage submissions of papers on any topic within this overall theme, with a particular emphasis on the list below. Within the list of topics of interest, papers combining the tools of information theory or other approaches for inverse problems are of particular interest.
Conference Topics

- Characterization and estimation of interdependencies in financial, natural or engineered systems
- Prediction and control of disruption cascades (e.g. propagation of defaults, failures or epidemics) in financial, natural, or engineered Systems
- Analysis of factors and empirical findings concerning network stability in the face of shocks.

Program Committee

Robin Lumsdaine (American U.)
Michael J. Stutzer (Chair; U. Colorado-Boulder)
Juan Restrepo (U. Colorado-Boulder)

Invited Speakers

Speakers
Karnik Anand (Bank of Canada)
Charlie Brummit (UC Davis)
Ian Dobson (Iowa State)
Andreea Minca (Cornell)
Camelia Minoiu (International Monetary Fund)
Edward Ott (Institute for Research in Electronics and Applied Physics)
Juan Restrepo (Colorado)
Hongdian Yang (Johns Hopkins U)

Roundtable
Raphael Levine (The Hebrew U and UCLA)
Robin Lumsdaine (American U)
Eric Renault (Brown)
Wojciech Szpankowski (Purdue)
David Wolpert (Santa Fe Institute)

**Fall 2014 Conference: October 31 – November 1, 2014**

**Title:** Recent Innovations in Info-Metrics  
**Location:** American University

**Sponsors**

US Comptroller of the Currency  
AU College of Arts & Sciences

**Conference Objectives**

The overall objective of this two-day conference is to continue the study of the foundations of info-metrics and information processing across the sciences. This is our fifth year anniversary conference.

In this conference we will continue the exploration into the basics of info-metrics, information-theoretic inference and their mathematical and philosophical foundations. A special emphasis will be on the interconnection of inferential and philosophical problems and solutions across the disciplines.

The conference will consist of Invited Talks, Invited Sessions and submitted papers.

**Conference Topics**

In this conference we will focus on all the topics within info-metrics that we studied in the last five years. This includes, but not limited to:

1. Information-Theoretic methods of inference  
2. Info-metrics across the sciences and engineering  
3. Philosophy and value of information and info-metrics  
4. Information processing and nonparametric inference  
5. Networks and information across the sciences  
6. Complexity and information  
7. Large or sparse data and information  
8. Recent advancements in information theory and inference  
Publications

A special volume of that conference will be published. All conference papers may be submitted following the conference. All papers will be subject to the usual review process. Presentation at the conference does not imply acceptance for publication.

We encourage all presenters to submit their paper to Amos Golan at agolan@american.edu and Aman Ullah at aman.ullah@ucr.edu with copies to damaris.carlos@ucr.edu and info-metrics@american.edu with subject line "Submission for Info-Metrics Publication." After the conference the authors of selected papers would submit their papers by January 30, 2015. The review process will complete by August 30, 2015.

Open Submissions

The conference organizers encourage submissions of papers on any topic within this overall theme with a particular emphasis on the list below.

The conference organizers encourage submissions of papers on any topic within this overall theme, with a particular emphasis on the list below. Within the list of topics of interest, papers combining the tools of information theory or other approaches for inverse problems are of particular interest.

Please submit papers to info-metrics@american.edu with subject line “Submission Fall 2014.” Submission should include a very detailed abstract-summary or preferably a draft paper. Published papers will not be accepted.

Submission Deadline: Friday, May 30, 2014

Program Committee

Luciano Floridi (Oxford)
Jeff Racine (McMaster University)
Richard Smith (U. Cambridge)
Aman Ullah (UC Riverside and Info-Metrics) - Chair
David Wolpert (Santa Fe Inst.)