

MIT Lincoln Laboratory

GRAPH EXPLOITATION SYMPOSIUM

- Preface
- Acknowledgments
- Agenda



9–10 August 2011

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Graph Exploitation Symposium



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PREFACE

Graph Exploitation Symposium

The GraphEx Symposium brought together leading experts from universities, industry, and government to discuss the latest research and future directions in network science and analysis. The event was limited to a small group of invited attendees. The symposium took place at the MIT Endicott House.

Symposium Highlights

The two-day technical program topics of interest included:

- Models of real-world network phenomena
- Methods and analysis for graph-based datasets
- Inference, visualization, and computation techniques for large-scale networks
- Construction of networks from real-world data
- Challenge problems for the next decade

Report Documentation and Signature Pages



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ACKNOWLEDGMENTS

Organizers

Technical Co-Chairs

Nadya Bliss
Benjamin Landon

MIT Lincoln Laboratory
MIT Lincoln Laboratory

Technical Committee

Robert Bond
William Campbell
Edward Kao
Jeremy Kepner
Eric Robinson
Clifford Weinstein
Patrick Wolfe

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AGENDA

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Group Photograph of the GraphEx Symposium attendees

01	<i>Symposium Overview*</i>	N. Bliss	MIT Lincoln Laboratory
02	Symposium Keynote: <i>Large Graph Mining</i>	C. Faloutsos	Carnegie Mellon University
03	<i>CTO's Introduction*</i>	B. Johnson	MIT Lincoln Laboratory
04	<i>Point Process Network Models</i>	P. Wolfe	Harvard University
05	<i>Signal Processing for Graphs</i>	B. Miller	MIT Lincoln Laboratory
06	<i>The Block Two-Level Erdos-Renyi (BTER) Graph Model</i>	T. Kolda	Sandia National Labs
07	<i>Estimating Latent Processes on a Graph from Indirect Measurements</i>	E. Airoldi	Harvard University
08	<i>Tracking Influential Agents</i>	D. Shah	MIT
09	<i>Inference on Network Data</i>	J. Ferry	Metron, Inc.
10	<i>Fusion of Context and Content in Human Language Technology</i>	A. Gorin	Department of Defense
11	Banquet Address <i>The TV Genome*</i>	D. Roy	MIT Media Lab/ Bluefin Labs

* Presentation not included

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|----|--|-------------|----------------------------|
| 01 | <i>Beyond Social Networks: The Dynamics of Networks and Trails</i> | K. Carley | Carnegie Mellon University |
| 02 | <i>Identifying the "Most Vital" Arc in Networks: Lessons Learned from Infrastructure Defense</i> | D. Alderson | Naval Postgraduate School |
| 03 | <i>Activity-Based Community Detection</i> | S. Philips | MIT Lincoln Laboratory |
| 04 | <i>Tracking Structure of Streaming Social Networks</i> | J. Riedy | Georgia Tech |
| 05 | <i>Network Mission Assessment Toolkit</i> | G. Wachman | MIT Lincoln Laboratory |
| 06 | <i>Social Behavior Prediction through Reality Mining</i> | C. Dagli | MIT Lincoln Laboratory |
| 07 | <i>Context, Graphs, and Dynamic Systems Architecture*</i> | D. Gagne | The MITRE Corporation |
| 08 | <i>Foresight and Understanding from Scientific Exposition</i> | D. Murdick | IARPA |
| 09 | <i>ONR Capstone*</i> | G. Toth | Office of Naval Research |

* Presentation not included