

MIT Lincoln Laboratory

GRAPH EXPLOITATION SYMPOSIUM

- Preface
- Acknowledgments
- Agenda



13–14 April 2010

443114_2
ESC-TR-2007-086
Issued: 30 August 2010

Prepared with support of the Office of Naval Research under Air Force Contract FA8721-05-C-0002.

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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

Graph Exploitation Symposium



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ACKNOWLEDGMENTS

Organizers

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MIT Lincoln Laboratory

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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	<i>Engineering and Applied Science Keynote Address Graph Detection and Estimation Theory</i>	P. Wolfe	Harvard University
03	<i>The Elements of Statistical Network Analysis</i>	E. Airoidi	Harvard University
04	<i>Propagating Uncertainty in Network Problems</i>	E. Kolaczyk	Boston University
05	<i>Dynamics and Control of Adaptive Networks</i>	I. Schwartz	US Naval Research Lab
06	<i>Network Visualization in Biology</i>	H. Pfister	Harvard University
07	<i>Persistent Hub Discovery in Sparse Correlation Networks</i>	A. Hero	University of Michigan
08	<i>Applying Tracking Theory to the Network Domain</i>	J. Ferry	Metron, Inc.
09	<i>Sub-Graph Detection Theory</i>	J. Kepner	MIT Lincoln Laboratory
10	<i>Banquet Speaker The Next Net</i>	S. Pentland	MIT

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|----|---|-------------|---------------------------|
| 01 | Social Science Keynote Address
<i>Building a Computational Social Science</i> | D. Lazer | Northeastern University |
| 02 | <i>Learning Causal Models of Behavior in Networks</i> | D. Jensen | UMass Amherst |
| 03 | <i>Network Analysis and Intent Recognition from Multimedia Content</i> | W. Campbell | MIT Lincoln Laboratory |
| 04 | <i>Graph Analysis—Lessons Learned*</i> | E. Bloedorn | The MITRE Corporation |
| 05 | <i>Organized Complexity and Network Science: Making Sense of Network Data</i> | D. Alderson | Naval Postgraduate School |
| 06 | <i>Joint Exploitation of Content and Externals: Statistical Inference on (time series of) Attributed Graphs</i> | C. Priebe | John Hopkins University |
| 07 | <i>Inferring Relevant Relationships from Interpersonal Communication</i> | W. Mason | Yahoo! Research |
| 08 | <i>Automated Graph Construction on Tracks from Wide Area Video Data</i> | E. Kao | MIT Lincoln Laboratory |

* Presentation not included