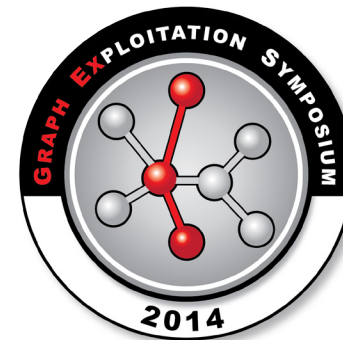


MIT Lincoln Laboratory

GRAPH EXPLOITATION SYMPOSIUM

- Preface
- Acknowledgments
- Agenda



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GES-5

21–22 August 2014

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Graph Exploitation Symposium



- Preface
- Acknowledgments
- Agenda

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

Group Photograph of the GraphEx Symposium attendees

Report Documentation and Signature Pages



- Preface
- Acknowledgments
- Agenda

ACKNOWLEDGMENTS

Organizers

Chair

Sanjeev Mohindra
Albert Reuther

MIT Lincoln Laboratory
MIT Lincoln Laboratory

Technical Co-Chairs

Rajmonda Caceres
Benjamin Miller

MIT Lincoln Laboratory
MIT Lincoln Laboratory

Technical Committee

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Graph Exploitation Symposium



- Preface
- Acknowledgments
- Agenda

21 August 2014

22 August 2014

AGENDA

21 August 2014

- | | | | |
|----|--|-----------------|--|
| 01 | Day 1 Keynote
<i>Tree-like Structure in Social Graphs</i> | M. Mahoney | University of California |
| 02 | <i>Covert and Anomalous Network
Discovery and Detection (CANDiD)</i> | R.S. Caceres | MIT Lincoln Laboratory |
| 03 | <i>Community Detection in
Random Networks</i> | E. Arias-Castro | University of California
at San Diego |
| 04 | <i>Sampling and Streaming Algorithms
for Counting Small Patterns in Large Graphs</i> | A. Pinar | Sandia National
Laboratories |
| 05 | <i>Network Security and Contagion</i> | A. Ozdaglar | Massachusetts Institute
of Technology |
| 06 | <i>Discovering Roles in Graphs:
Algorithms and Applications</i> | T. Eliassi-Rad | Rutgers University |
| 07 | <i>On Finding Planted Cliques
in Random Graphs</i> | L. Reyzin | University of Illinois
at Chicago |
| 08 | <i>VizLinc</i> | K. Greenfield | MIT Lincoln Laboratory |
| 09 | <i>Making Diffusion Work for You</i> | B.A. Prakash | Virginia Tech |
| 10 | <i>Commute Times, Concentration, Discrete
Green's Functions, and Kernel Regression
on Graph'ish Data</i> | C. Long | U.S. Department
of Defense |

Graph Exploitation Symposium



- Preface
- Acknowledgments
- Agenda

21 August 2014

22 August 2014

AGENDA

22 August 2014

- | | | | |
|----|--|-------------|---|
| 01 | Day 2 Keynote
<i>Organization & Structure of
Communities in Graphs</i> | J. Leskovec | Stanford University |
| 02 | <i>Probabilistic Inference in Big Graphs:
Patterns, Techniques & Tools</i> | L. Getoor | University of California
at Santa Cruz |
| 03 | <i>Topic-Factorized Ideal Point Estimation
Model for Legislative Voting Network</i> | Y. Sun | Northeastern University |
| 04 | <i>Large-Scale Graph Mining:
Theory and Practice</i> | V. Mirrokni | Google |
| 05 | <i>Spectral Approaches for Learning
Hidden Structure</i> | S. Kakade | Microsoft Research |
| 06 | <i>Graphs and Manifold
Learning in Neuroimaging</i> | G. Langs | Medical University
of Vienna |
| 07 | <i>The GraphBLAS Standard Effort</i> | J. Kepner | MIT Lincoln Laboratory |
| 08 | <i>Graph Explorations at Scale:
Processing Trillions of Edges per
Second with Single Source Shortest Paths</i> | F. Petrini | IBM |