- M. Newton, O. Sykora, M. Uzovic, I. Vrto – *New Exact Results and Bounds for Bipartite Crossing Numbers of Meshes*.
- J. Balogh, G. Salazar – *Improved Bounds for the Number of k-sets, Convex Quadrilaterals, and the Rectilinear Crossing Number of K_n*.

Session 7: Thurs 4.35PM – 6.00PM

- P. F. Cortese, G. Di Battista, M. Patrignani, M. Pizzonia – *Clustering Cycles into Cycles of Clusters*.
- M. Baur, U. Brandes, M. Gaertler, D. Wagner – *Drawing the AS Graph in Two and a Half Dimensions*.
- S. Basu, R. Dhandapani, R. Pollack – *On the Realizable Weaving Patterns of Polynomial Curves in R^3*.
- E. Di Giacomo, W. Didimo, G. Liotta, M. Suderman – *Hamiltonian-with-Handles Graphs and the k-Spine Drawability Problem*.
- R. Ellis, X. Jia, J. Martin, C. Y – *Random Geometric Graph Diameter in the Unit Disk with l_p Metric*.

Session 8: Fri 9.00AM – 10.40AM

- C. Papamanthou, I. Tollis, M. Do – *3D Visualization of Semantic Metadata Models and Ontologies.*
- M. Bekos, M. Kaufmann, A. Symvonis, A. Wolff – *Boundary Labeling: Models and Efficient Algorithms for Rectangular Maps*.
- C. Goerg, P. Birke, M. Pohl, S. Diehl – *Dynamic Graph Drawing of Sequences of Orthogonal and Hierarchical Graphs*.
- U. Brandes, C. Pich – *GraphML Transformation*.
- S. Hachul, M. Junger – *Drawing Large Graphs with a Potential Field Based Multilevel Algorithm*.

Session 9: Fri 11.10AM – 12.20PM

- C. Erten, S. Kobourov – *Simultaneous Embedding of Planar Graphs with Few Bends*.
- A. Por, D. Wood – *No-Three-in-Line in 3D*.
- S. Aziza, T. Biedl – *Hexagonal Grid Drawings: Algorithms and Lower Bounds*.
- M. Patrignani – *A Note on the Self-Similarity of Some Orthogonal Drawings*.

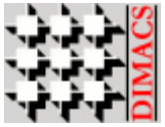
Session 10: Fri 2.15PM – 4.40PM

- B. Finkel, R. Tamassia – Curvilinear Graph Drawing Using the Force-Directed Method.
- D. Forrester, S. Kobourov, A. Navabi, K. Wampler, G. Yee – Graphael: A System for Generalized Force-Directed Layouts.
- S. Kobourov, C. Pitta – An Interactive Multi-User System for Simultaneous Graph Drawing.
- S. Hong, T. Murtagh – Visualization of Large and Complex Networks Using PolyPlane.
- S. Kobourov, R. Yusufov – Visualizing Large Graphs with Compound-Fisheye Views and Treemaps.
- P. Holleis, F. Brandenburg – QUOGGLES: Query On Graphs - a Graphical Largely Extensible System.
- U. Dogrusoz, E. Giral, A. Cetintas, A. Civril, E. Demir – A Compound Graph Layout Algorithm for Biological Pathways.
- S. Hong, D. Merrick, H. Nascimento – The Metro Map Layout Problem.

12th International Symposium on Graph Drawing

in the Heart of Harlem, NYC

September 29 – October 2, 2004



Conference Program

Tuesday, September 28
4.00PM – 7.00PM:
- Registration and Reception

Wednesday, September 29
8.30AM – 9.30AM:
- Registration and Refreshments

9.30AM – 9.45AM:
- Opening Remarks

9.45AM – 10.40AM:
- Invited Lecture: Paul Seymour

10.40AM – 11.00AM:
- Coffee Break

11.00AM – 12.35PM:
- Session 1

12.35PM – 2.10PM:
- Lunch

2.30PM – 4.05PM:
- Session 2

4.05PM – 4.35PM:
- Coffee Break

4.35PM – 6.10PM:
- Session 3

6.30PM – 8.00PM:
- Graph Drawing Contest

Thursday, September 30
9.00AM – 10.40AM:
- Session 4

10.40AM – 11.10AM:
- Coffee Break

11.10AM – 12.30PM:
- Session 5

12.30PM – 2.00PM:
- Lunch

2.30PM – 4.05PM:
- Session 6

4.05PM – 4.35PM:
- Coffee Break

4.35PM – 6.00PM:
- Session 7

6.30PM – 9.45PM:
- Conference Banquet and Graph Drawing Contest Results

Friday, October 1
9.00AM – 10.40AM:
- Session 8

10.40AM – 11.10AM:
- Coffee Break

11.10AM – 12.20PM:
- Session 9

12.20PM – 2.00PM:
- Lunch

2.15PM – 4.40PM:
- Session 10

Saturday, October 2
9.30AM – 10.00AM:
- Poster Session

10.00AM – 10.50AM:
- Invited Lecture: Erik Demaine

10.50AM – 12.15AM:
- Invitation to GD2005, Closing Remarks and Brunch

12.15PM –
- Excursion(s)

Invited Lecture Listing

Erik Demaine (M.I.T)
Saturday, October 2:: 10.00AM – 10.50AM
- Fast Algorithm for Hard Graph Problems: Bidimensionality, Minors, and Local Treewidth.

Paul Seymour (Princeton University)
Wednesday, September 29: 9.45AM – 10.40AM
- The Structure of Claw-Free Graphs.

Detailed Lecture Listing

Session 1: Wed 11.00AM – 12.35PM
- N. Bonichon, S. Felsner, M. Mosbah – *Convex Drawings of 3-connected Plane Graphs*.
- P. Healy, K. Lynch – *Building Blocks of Upward Planar Diagraphs*.
- G. Aloupis, P. Bose, P. Morin – *Reconfiguring Triangulations with Edge Flips and Point Moves*.
- P. Bose, F. Hurtado, E. Rivera-Campo, D. Wood – *Partitions of Complete Geometric Graphs into Plane Trees*.
- H. Zhang, X. He – *New Theoretical Bounds of Visibility Representation of Plane Graph*.

Session 2: Wed 2.30PM – 4.05PM
- R. Anderson, F. Chung, L. Lu – *Drawing Power Law Graphs*.
- D. Eppstein – *Algorithms for Drawing Media*.
- C. Gotsman, Y. Koren – *Distributed Graph Layout for Sensor Networks*.
- M. Raither – *Visual Navigation of Compound Graph*.
- E. Gansner, Y. Koren, S. North – *Graph Drawing by Stress Majorization*.

Session 3: Wed 4.35PM – 6.10PM
- S. Hong, P. Eades – *A Linear Time Algorithm for Constructing Maximally Symmetric Straight Line Drawings of Planar Graphs*.
- D. Ebner, G. Klau, R. Weiskircher – *Label Number Maximization in the Slider Model*.
- M. Eiglsperger, M. Siebenhaller, M. Kaufmann – *An Efficient Implementation of Sugiyama's Algorithm for Layered Graph Drawing*.
- M. Forster – *A Fast and Simple Heuristic for Constrained Two-Level Crossing Reduction*.
- J. Boyer – *Additional PC-tree Planarity Conditions*.

Session 4: Thurs 9.00AM – 10.40AM
- V. Dujmovic, D. Wood – *Layouts of Graph Subdivisions*.
- L. Torok, I. Vrto – *Layout Volumes of the Hypercube*.
- V. Dujmovic', M. Suderman, D. Wood – *Really Straight Graph Drawings*.
- D. Eppstein, M. Goodrich, J. Meng – *Confluent Layered Drawings*.
- P. Hui, M. Schaefer, D. Stefankovic – *Train Tracks and Confluent Drawings*.

Session 5: Thurs 11.10AM – 12.30PM
- A. Dean, E. Gethner, J. Hutchinson – *Unit Bar-Visibility Layouts of Triangulated Polygons*.
- H. de Fraysseix, P. Ossona de Mendez – *Contact and Intersection Representations*.
- E. Di Giacomo, W. Didimo, G. Liotta, H. Meijer – *Computing Radial Drawings on the Minimum Number of Circles.*
- M. Kitching, S. Whitesides – *The Three Dimensional Logic Engine*.

Session 6: Thurs 2.30PM – 4.05PM
- A. Marcus, G. Tardos – *Intersection Reverse Sequences and Geometric Applications*.
- J. Kyncl, J. Pach, G. Toth – *Long Alternating Paths in Bicolored Point Sets.*
- S. Norine – *Drawing Pfaffian Graphs.*