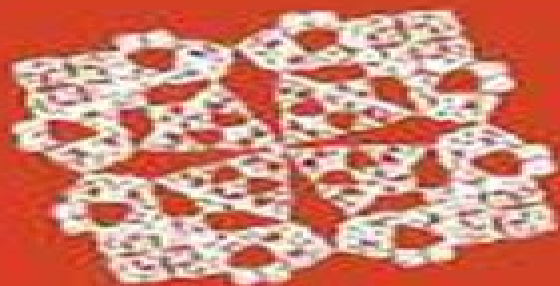


János Pach (Ed.)

LNC3383

# Graph Drawing

12th International Symposium, GD 2004  
New York, NY, USA, September/October 2004  
Revised Selected Papers



 Springer

**Graph Drawing Symposium On Graph Drawing Gd 96**  
**Berkeley California U S A September 1820 1996**  
**Proceedings**

**Ioannis G. Tollis, Maurizio Patrignani**



## **Graph Drawing Symposium On Graph Drawing Gd 96 Berkeley California U S A September 1820 1996**

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**Graph Drawing** ,1997      **Graph Drawing** Stephen North,1997-01-15 This book constitutes the strictly refereed post conference proceedings of the International Symposium on Graph Drawing GD 96 held in Berkeley California in September 1996 The 24 revised full papers and the 8 systems demonstrations presented in the book were carefully selected from a total of 50 papers and 24 demos submitted Also included is a summary of the annual graph drawing competition Among the topics covered are planarity upward and orthogonal drawing heuristics experimental results and graph drawing systems      *Graph Drawing* Joe Marks,2001-01-10 This book constitutes the thoroughly refereed post proceedings of the 8th International Symposium on Graph Drawing GD 2000 held in Colonial Williamsburg VA USA in September 2000 The 36 revised full papers presented were carefully reviewed and selected from a total of 68 submissions The book presents topical sections on empirical studies and standards theory application and systems force directed layout k level graph layout orthogonal drawing symmetry and incremental layout and reports on a workshop on graph data formats and on the annual GD graph drawing contest      **Graph Drawing** Jan Kratochvíl,1999 The range of issues considered in graph drawing includes algorithms graph theory geometry topology order theory graphic languages perception applications and practical systems Much research is motivated by applications to systems for viewing and interacting with graphs The interaction between theoretical advances and implemented solutions is an important part of the graph drawing field The annually organized graph drawing symposium is a forum for researchers practitioners developers and users working on all aspects of graph visualization and representations The preceding symposia were held in Montreal GD 98 Rome GD 97 Berkeley GD 96 Passau GD 95 Princeton GD 94 and Paris GD 93 The Seventh International Symposium on Graph Drawing GD 99 was organized at Střekov Castle in the vicinity of Prague Czech Republic This baroque castle recently restored as a hotel and conference center provided a secluded place for the participants who made good use of the working atmosphere of the conference In total the symposium had 83 registered participants from 16 countries      *Graph Drawing* Jan Kratochvíl,2003-06-26 The range of issues considered in graph drawing includes algorithms graph theory geometry topology order theory graphic languages perception applications and practical systems Much research is motivated by applications to systems for viewing and interacting with graphs The interaction between theoretical advances and implemented solutions is an important part of the graph drawing field The annually organized graph drawing symposium is a forum for researchers practitioners developers and users working on all aspects of graph visualization and representations The preceding symposia were held in Montreal GD 98 Rome GD 97 Berkeley GD 96 Passau GD 95 Princeton GD 94 and Paris GD 93 The Seventh International Symposium on Graph Drawing GD 99 was organized at Střekov Castle in the vicinity of Prague Czech Republic This baroque castle recently restored as a hotel and conference center provided a secluded place for the participants who made good use of the working atmosphere of the

conference In total the symposium had 83 registered participants from 16 countries

**Graph Drawing** Jan Kratochvil, 1999-12-22 The range of issues considered in graph drawing includes algorithms graph theory geometry topology order theory graphic languages perception applications and practical systems Much research is motivated by applications to systems for viewing and interacting with graphs The interaction between theoretical advances and implemented solutions is an important part of the graph drawing field The annually organized graph drawing symposium is a forum for researchers practitioners developers and users working on all aspects of graph visualization and representations The preceding symposia were held in Montreal GD 98 Rome GD 97 Berkeley GD 96 Passau GD 95 Princeton GD 94 and Paris GD 93 The Seventh International Symposium on Graph Drawing GD 99 was organized at Strán Castle in the vicinity of Prague Czech Republic This baroque castle recently restored as a hotel and conference center provided a secluded place for the participants who made good use of the working atmosphere of the conference In total the symposium had 83 registered participants from 16 countries

**Graph Drawing** Michael T. Goodrich, Stephen G. Kobourov, 2002-10-30 This book constitutes the thoroughly refereed post proceedings of the 10th International Symposium on Graph Drawing GD 2002 held in Irvine CA USA in August 2002 The 24 revised full papers 9 short papers and 7 software demonstrations presented together with a report on the GD 2002 graph drawing contest were carefully reviewed and selected from a total of 48 regular paper submissions All current aspects of graph drawing are addressed

**Graph Drawing** Joe Marks, 2001-01-10 This year's meeting marked the Eighth International Symposium on Graph Drawing The organizing and program committees worked hard to make this year's symposium possible and we were delighted that so many people came to Colonial Williamsburg Virginia for three days of the latest results in the field of graph drawing As in previous years the review process was quite competitive We accepted 30 out of 53 regular length submissions and 5 out of 15 short submissions for a total acceptance ratio of 35 out of 68 or 51% This year's program featured several new developments in the field Four different approaches for handling very large graphs were presented in a session on force directed layout Two sessions were devoted to the latest advances in orthogonal graph drawing And alongside the usual mix of theory and practice papers we had several contributions based on empirical studies of users and of systems Our invited talks were given by two speakers who were new to most members of the GD community but who work in areas that are closely related to graph drawing Professor Colin Ware of the University of New Hampshire told us how knowledge of human visual perception is useful for the design of effective data visualizations And Professor David Jensen of the University of Massachusetts at Amherst talked about the process of knowledge discovery from graphs a process that involves more than just graph drawing and visualization

**Graph Drawing** Walter Didimo, Maurizio Patrignani, 2013-02-14 This book constitutes the thoroughly refereed post conference proceedings of the 20th International Symposium on Graph Drawing GD 2012 held in Redmond WA USA in September 2012 The 42 revised full papers presented together with 4 revised short papers and 8 poster descriptions were carefully reviewed and selected from 92 submissions

They cover a wide range of topics in two main tracks combinatorial and algorithmic aspects and visualization systems and interfaces In addition reports of the 19th Annual Graph Drawing Contest which was held during the conference and of a workshop on theory and practice of graph drawing to celebrate Professor Peter Eades 60th birthday are included in the volume

**GRAPH DRAWING.** Franz J. Brandenburg, 1996 This book constitutes the refereed proceedings of the international Symposium on Graph Drawing GD 95 held in Passau Germany in September 1995 The 40 full papers and 12 system demonstrations were selected from a total of 88 submissions and include in their revised versions presented here the improvements suggested during the meeting This book also contains a report on the graph drawing contest held in conjunction with GD 95 Graph drawing is concerned with the problem of visualizing structural information particularly by constructing geometric representations of abstract graphs and networks The importance of this area for industrial applications is testified by the large number of people with industrial affiliations submitting papers and participating in the meeting PUBLISHER S WEBSITE

*Graph Drawing* David Eppstein, Emden R. Gansner, 2010-03-24 This volume constitutes the refereed proceedings of the 17th International Symposium on Graph Drawing GD 2009 held in Chicago USA during September 2009 The 31 revised full papers and 4 short papers presented were carefully reviewed and selected out of 79 submissions Furthermore 10 posters were accepted in a separate submission process

Graph Drawing Marc van Kreveld, Bettina Speckmann, 2011-12-16 This volume constitutes the refereed proceedings of the 19th International Symposium on Graph Drawing GD 2010 held in Eindhoven The Netherlands during September 2011 The 34 revised full papers presented together with 3 revised short and 6 poster papers were carefully reviewed and selected from 88 submissions Furthermore the proceedings contain the abstracts of two invited talks and to commemorate Kozo Sugiyama and his pioneering research in graph drawing the proceedings include an obituary A unique and fun part of the symposium is the Graph Drawing Contest which is part of the Graph Drawing Challenge This year was the 18th edition A report on the contest is included at the end of the proceedings

*Graph Drawing* Michael Kaufmann, 2007-02-07 This book constitutes the thoroughly refereed post proceedings of the 14th International Symposium on Graph Drawing GD 2006 held in Karlsruhe Germany in September 2006 The 33 revised full papers and 5 revised short papers presented together with 2 invited talks 1 system demo 2 poster papers and a report on the graph drawing contest were carefully selected during two rounds of reviewing and improvement from 91 submissions All current aspects in graph drawing are addressed ranging from foundational and methodological issues to applications for various classes of graphs in a variety of fields

Graph Drawing Petra Mutzel, Michael Jünger, Sebastian Leipert, 2003-07-31 This book constitutes the thoroughly refereed post proceedings of the 9th International Symposium on Graph Drawing GD 2001 held in Vienna Austria in September 2001 The 32 revised full papers presented were carefully reviewed and selected from 66 paper submissions Also included are a corrected version of a paper from the predecessor volume short reports on the software systems exhibition two papers of the special session on

graph exchange formats and a report on the annual graph drawing contests The papers are organized in topical sections on hierarchical drawing planarity crossing theory compaction planar graphs symmetries interactive drawing representations aesthetics 2D and 3D embeddings data visualization floor planning and planar drawing **Graph Drawing** Janos

Pach,2005-02-10 This book constitutes the thoroughly refereed post proceedings of the 12th International Symposium on Graph Drawing GD 2004 held in New York NY USA in September October 2004 The 39 revised full papers and 12 revised short papers presented together with 4 posters and a report on the graph drawing context were carefully selected during two rounds of reviewing and improvement All current aspects in graph drawing are addressed ranging from foundational and methodological issues to applications for various classes of graphs in a variety of fields **Graph Drawing** Patrick

Healy,2006-01-25 This book constitutes the thoroughly refereed post proceedings of the 13th International Symposium on Graph Drawing GD 2005 held in Limerick Ireland in September 2005 The 38 revised full papers and 3 revised short papers presented together with 3 software demos 8 posters and a report on the graph drawing contest were carefully selected during two rounds of reviewing and improvement from 101 submissions All current aspects in graph drawing are addressed ranging from foundational and methodological issues to applications for various classes of graphs in a variety of fields Also included is a report on the Workshop on Network Analysis and Visualisation held in conjunction with the conference

Graph Drawing Guiseppe Liotta,2004-03-04 The 11th International Symposium on Graph Drawing GD 2003 was held on September 21 24 2003 at the Universit a degli Studi di Perugia Perugia Italy GD 2003 attracted 93 participants from academic and industrial institutions in 17 countries In response to the call for papers the program committee received 88 re larsubmissionsdescribingoriginalresearchand orsystemdemonstrations Each submission was reviewed by at least 4 program committee members and c ments were returned to the authors Following extensive e mail discussions the program committee accepted 34 long papers 12 pages each in the proceedings and 11 short papers 6 pages each in the proceedings Also 6 posters 2 pages each in the proceedings were displayed in the conference poster gallery In addition to the 88 submissions the program committee also received a submission of special type one that was not competing with the others for a time slot in the conference program and that collects selected open problems in graph drawing The aim of this paper which was refereed with particular care andUNCHANGEDtworoundsofrevisions istostimulatefutureresearchinthe graph drawing community The paper presents 42 challenging open problems in di

erentareasofgraphdrawingandcontainsmorethan120references Although the length of the paper makes it closer to a journal version than to a conference extended abstract we decided to include it in the conference proceedings so that it could easily reach in a short time the vast majority of the graph drawing community **Graph Drawing** Ioannis G. Tollis,Maurizio

Patrignani,2009-02-13 This book constitutes the proceedings of the 16th International Symposium on Graph Drawing GD 2008 held in Heraklion Crete Greece during September 21 24 2008 The 31 long papers and 8 short papers presented

together with 10 posters and two invited papers were carefully reviewed and selected from 83 submissions. The volume also includes a report on the Graph Drawing Contest which was held during the conference. An important aspect of the conference is bridging the gap between theoretical advances and implemented solutions of geometric representation of graphs and networks. It is motivated by those applications where it is crucial to visualize structural information as graphs. Graph Drawing Patrick Healy, Nikola S. Nikolov, 2006-01-21. The 13th International Symposium on Graph Drawing GD 2005 was held in Limerick Ireland September 12-14 2005. One hundred and fifteen participants from 19 countries attended GD 2005. In response to the call for papers the Program Committee received 101 submissions each detailing original research or a system demonstration. Each submission was reviewed by at least three Program Committee members; each referee's comments were returned to the authors. Following extensive discussions the committee accepted 38 long papers, 3 short papers and 3 long system demos each of which were presented during one of the conference's 12 sessions. Eight posters were also accepted and were on display throughout the conference. Two invited speakers Kurt Mehlhorn and George Robertson gave fascinating talks during the conference. Prof Mehlhorn spoke on the use of minimum cycle bases for reconstructing surfaces while Dr Robertson gave a perspective past and present on the visualization of hierarchies. As is now traditional a graph drawing contest was held during the conference. The accompanying report written by Stephen Kobourov details this year's contest. This year a day long workshop organized by Seok Hee Hong and Dorothea Wagner was held in conjunction with the conference. A report on the Workshop on Network Analysis and Visualization written by Seok Hee Hong is included in the proceedings.

**Graph Drawing** Franz Brandenburg, 1996-01-10. This book constitutes the refereed proceedings of the international Symposium on Graph Drawing GD 95 held in Passau Germany in September 1995. The 40 full papers and 12 system demonstrations were selected from a total of 88 submissions and include in their revised versions presented here the improvements suggested during the meeting. This book also contains a report on the graph drawing contest held in conjunction with GD 95. Graph drawing is concerned with the problem of visualizing structural information particularly by constructing geometric representations of abstract graphs and networks. The importance of this area for industrial applications is testified by the large number of people with industrial affiliations submitting papers and participating in the meeting.

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