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Graph Drawing

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Preface

Graph drawing addresses the problem of constructing geometric representations of abstract graphs, networks, and hypergraphs, with applications to key computer technologies such as software engineering, database systems, visual interfaces, and circuit layout.

Graph Drawing '94 (GD '94), the *DIMACS International Workshop on Graph Drawing*, was held in Princeton, New Jersey, USA, on October 10–12, 1994. *GD '94* was sponsored by DIMACS, the NSF Science and Technology Center in Discrete Mathematics and Theoretical Computer Science.

In response to the call for papers and demos for *GD '94*, the program committee received 90 submissions, subdivided into 80 papers and 10 demos, indicating a strong and growing interest in the area. Because of the overall high quality of the submissions, the program committee was faced with the difficult task of selecting a subset of them for inclusion in the workshop program. Each submission was reviewed on average by 7 program committee members, and comments were returned to the authors. In addition, the authors were offered the opportunity to revise their papers in order to incorporate comments received during the workshop.

The technical program of *GD '94* included the presentation of 24 regular papers, 18 short papers, and 10 system demonstrations, a panel discussion on “Graph Drawing: Too Much Theory, Too Little Practice?”, and a poster gallery with 20 poster displays. Also, in conjunction with *GD '94*, there was a graph drawing contest with prizes awarded at the workshop. This volume contains the papers and demos presented at *GD '94*, and reports on the poster gallery and graph drawing contest.

GD '94 gathered 120 participants from all over the world (13 countries from 4 continents were represented). The significant presence of participants with industrial affiliations indicated the importance of the area to the computer industry. *GD '94* follows the *GD '93* ALCOM Workshop, held in Paris, France, and the *GD '92* Work Meeting, held in Rome, Italy. *GD '95* will be held in Passau, Germany.

We wish to express our appreciation to all the authors of submitted papers, demos, and posters, to the program committee members and their referees, and to the organizers of the panel, poster gallery, demo session, and graph drawing contest. We are grateful to DIMACS for providing financial support to the workshop, and to the Department of Computer Science of Princeton University for offering the use of their facilities. Special thanks go to Diane Souvaine for helping us get the workshop started, to Susan Platt for handling the advance registration, to Sandy Barbu for her assistance with local arrangements, and to Andrew Yao for giving the opening remarks.

Providence, Rhode Island
Richardson, Texas

Roberto Tamassia
Ioannis G. Tollis

October 1994

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Sandy Barbu (Princeton University, USA).

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