



Call for papers – GD 2012



20th International Symposium on
Graph Drawing

September 19-21, 2012 - Redmond, Washington, USA
(<http://www.gd2012.org/>)

Graph Drawing is concerned with the visualization of graphs and networks. It is motivated by those application domains where it is crucial to visually analyze and interact with relational datasets. Examples of such application domains include social sciences, Internet and Web computing, information systems, computational biology, networking, VLSI circuit design, and software engineering. Bridging the gap between theoretical advances and system implementations is therefore a key factor of Graph Drawing.

The **International Symposium on Graph Drawing** is the main annual event in this area. This year the conference celebrates its 20th anniversary. It will take place on **September 19-21, 2012**, and will be hosted by **Microsoft Research in Redmond, Washington, USA**. Researchers and practitioners working on any aspect of graph drawing are invited to contribute **papers** and **posters**, and participate in the **graph drawing contest**.

Papers. Submitted papers must describe original research of theoretical or practical significance to graph drawing. This year, for the first time, the call for papers is split into two distinct tracks. Each paper must be submitted in one of the two tracks. Papers submitted to one track will not compete with papers submitted to the other track.

Track 1: Combinatorial and algorithmic aspects

This track is mainly devoted to fundamental graph drawing advances, such as combinatorial aspects and algorithm design. The range of topics for this track includes (but is not limited to) the following:

- Design and experimentation of graph drawing algorithms
- Geometric graph theory
- Geometric computing
- Planarity and topological graph theory
- Optimization on graphs

Track 2: Visualization systems and interfaces

This track is mainly devoted to practical aspects of graph drawing, such as the development of graph visualization systems and interfaces in different application areas. The range of topics for this track includes (but is not limited to) the following:

- Visualization of graphs and networks in application areas (e.g., social sciences, biology, geography, software engineering, circuit design, business intelligence)
- Software systems for graph visualization
- Interfaces for interacting with graphs
- Benchmarks and experimental analysis for graph visualization systems and user interfaces
- Cognitive studies on graph drawing readability and user interaction

All papers must be submitted in the single-spaced **LNCS style**. Each submission may be either **long** (up to 12 pages) or **short** (up to 6 pages). The claims of the paper should be fully substantiated, including full proofs or appropriate experimental data. If this information does not fit within the page limits, the authors should include it in a clearly marked appendix, whose length is not constrained.

Posters. Submissions of posters on graph drawing and related areas are also solicited. The poster session will provide a forum for the communication of late-breaking research results (which may also appear elsewhere) to the graph drawing community. Posters should be accompanied by an abstract (up to 2 pages in the single-spaced **LNCS style**).

Contest. Entertainment during the conference will be provided by the graph drawing game contest. We call for submissions in this contest: Develop a game that is playable, relevant to graph drawing, and fun. A team of experts will judge the relevance of the game to graph drawing, while conference attendees, whom we invite to test and play all games, will judge the fun factor. We will provide further details on the [conference Web site](#).

Publication and Awards. Accepted papers and abstracts of accepted posters will appear in the conference proceedings, published by Springer in the series Lecture Notes in Computer Science. Selected papers will be invited for submission to a special issue of the Journal of Graph Algorithms and Applications. Best paper awards for each of the two tracks will be given. Details will be provided on the conference Web site.

Important Dates

Paper submission deadline	June 5
Notification of paper acceptance	July 17
Poster submission deadline	August 20
Notification of poster acceptance	August 30
Final versions due	September 4
Contest submission deadline	September 18
Symposium on Graph Drawing	September 19-21

All deadlines are **23:59 PDT** and fixed. There will be **no extensions**.

Invited Speakers

Prosenjit K. Bose, Carleton University
Ben Shneiderman, University of Maryland

Program Committee

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