

# Special Issue on Algorithms and Models for the Web-Graph

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Special issue editors

This volume of *Internet Mathematics* presents a selection of papers that are based on their presentations at the Third Workshop on Algorithms and Models for the Web-Graph (WAW 2004), held in Rome, Italy, October 16, 2004, in conjunction with the 45th Annual IEEE Symposium on Foundations of Computer Science (FOCS 2004). Different from the conference proceedings of the workshop, these selected papers do not have page limits and contain the full versions of proofs, algorithms, and analysis. All papers have been thoroughly reviewed by at least two referees in accordance with the review process of *Internet Mathematics*.

As the World Wide Web has become part of our everyday life, information retrieval and data mining on the web is now of enormous practical interest. Some of the algorithms supporting these activities are based substantially on viewing the web as a graph, induced in various ways by links among pages, links among hosts, and other similar networks. The aim of the 2004 Workshop on Algorithms and Models for the Web-Graph was to further the understanding of these web-induced graphs and to stimulate the development of high-performance algorithms and applications that use the graph structure of the web.

Papers in several areas of the study of web graphs have been selected in this special issue, including mathematical models, algorithms for analyzing web graphs and for computing graph properties at the web scale, applications of web graph algorithms to data mining and information retrieval, clustering and visualization, and empirical exploration techniques and practical systems issues.

We conclude with a special thanks to the authors and the reviewers of the submitted papers for their timely and careful work. We hope that this special issue offers the reader some of the best current research in the field.