Preface

The papers in this volume were presented at the 17th Annual ACM Symposium on Parallelism in Algorithms and Architectures (SPAA), held on July 17-20, 2005, in Las Vegas, NV, USA. The symposium was co-located with the ACM Symposium on Principles of Distributed Computing (PODC).

The conference was sponsored by the ACM Special Interest Groups on Algorithms and Computation Theory (SIGACT) and Computer Architecture (SIGARCH) and organized in cooperation with the European Association for Theoretical Computer Science (EATCS). Financial support was provided by the Intel Corporation, and the program committee meeting was partially supported by the Research and Academic Computer Technology Institute (RACTI) of Greece.

The thirty-six technical presentations that appeared at the Conference were selected by the program committee after electronic discussion and a meeting of one and a half day. The technical presentations were selected out of one hundred submitted extended abstracts. The meeting took place in Athens, Greece. The committee made its decisions based on perceived quality and originality, as well as appropriateness to the theme of the symposium. The mix of selected papers reflects the unique nature of SPAA in bringing together the theory and practice of parallel computing. SPAA defines parallelism very broadly to encompass any computational “device” or scheme that can perform multiple operations or tasks simultaneously or concurrently. This year, SPAA technical papers include, for example, papers in networking, the Web, sensor networks and quantum computing. The technical papers in this volume are to be considered preliminary versions, and authors are generally expected to publish polished and complete versions in archival scientific journals.

In addition to the technical presentations, this volume includes five brief announcements presented at the SPAA review session. These announcements were selected either from abstracts submitted to be considered as brief announcements or from extended abstracts submitted to be considered either as a technical presentation or as a brief announcement. The committee’s decisions were based on the perceived interest of these contributions, with the goal that they serve as bases for further significant advances in parallelism in computing. Extended versions of the SPAA brief announcements may be published later in other conferences or journals.

The program committee would like to thank all who submitted papers. The committee also thanks colleagues who helped by providing reviews of the submissions. The names of these external reviewers appear on page x. The committee is also thankful to Christian Scheideler whose work in running the SPAA server was excellent and very helpful and to the general chair Phil Gibbons who gave valuable procedural suggestions. I, as program chair, would like to thank the program committee for all their hard work that went into the paper selection process, and to the RACTI engineer Ms. Eleftheria Stavropoulou for her assistance in running the Web interface at the meeting of the Committee.

Paul Spirakis
Research and Academic Computer Technology Institute, Greece
SPAA 2005 Program Chair
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