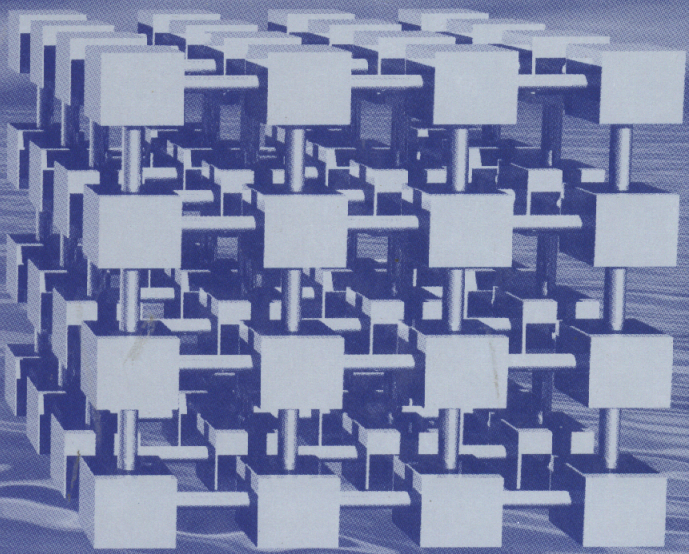
PROCEEDINGS OF THE 4TH WORKSHOP ON

PASA '96

PARALLEL SYSTEMS & ALGORITHMS

Editors

F Hoβfeld, E Maehle and EW Mayr



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Research Center Jülich, Germany 10–12 April 1996

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PREFACE

The Parallel Systems and Algorithms (PASA) workshop series is organized by the GI Special Interest Group 0.1.3 "Parallel and Distributed Algorithms" and the GI/ITG Special Interest Group 3.1.2 "Parallel Algorithms, Architectures and System Software." Because the first three workshops in this series, which had been held basically without foreign participation, had been so successful, a first attempt was made to extend the scope of the workshop, and thus this 4th PASA Workshop was the first international workshop in the series. It took place April 10–12, 1996 at the Research Center Jülich, near Aachen in Germany.

The PASA Workshops emphasize the goal to build a bridge between theory and practice in the area of parallel systems and algorithms. Practical problems which require theoretical investigations as well as the applicability of theoretical approaches and results to practice are discussed. A particularly important aspect is the communication and exchange of experiences between various groups working in various areas of parallel computing, e.g. in computer science, electrical engineering, physics, or mathematics.

The 20 contributions, including three invited lectures, that were presented at this workshop discussed many aspects of parallel computing from a theoretical as well as from a practice-oriented point of view. Although, as was to be expected, the majority of the participants were German, it is remarkable that the authors and the 41 participants at the workshop came from eight, respectively six, countries. The talks and the lively discussions clearly showed that there are a number of promising approaches for the application of formal methods to the solution of practical problems in the area of parallel systems and algorithms.

The Central Institute for Applied Mathematics of the Research Center Jülich (chaired by Prof. Hoßfeld) hosted the workshop and provided the participants with great hospitality and surroundings conducive for a wonderful atmosphere and an excellent meeting. In particular, we would like to thank Dr. Burg of the Institute for setting up a smooth and flawless organization, at the conference center as well as when the participants were treated with a magnificent tour of the city of Aachen.

München, June 1996

Friedel Hoßfeld
Erik Maehle
Ernst W. Mayr

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