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Parallel and Distributed Processing

11th IPPS/SPDP'99 Workshops
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13th International Parallel Processing Symposium
and 10th Symposium on
Parallel and Distributed Processing
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Proceedings

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Foreword

This volume contains proceedings from eleven workshops held in conjunction with the 13th International Parallel Symposium and the 10th Symposium on Parallel and Distributed Processing, 1999 IPPS/SPDP, on 12-16 April 1999 in San Juan, Puerto Rico.

The workshops provide a forum for bringing together researchers, practitioners and designers from various backgrounds to discuss the state of the art in parallelism. They focus on different aspects of parallelism, from run-time systems to formal methods, from optics to irregular problems, from biology to PC networks, from embedded systems to programming environments. The Workshops on the following topics are represented in this volume:

- High-Level Parallel Programming Models and Supportive Environments
- Biologically Inspired Solutions to Parallel Processing Problems
- Parallel and Distributed Real-Time Systems
- Run-Time Systems for Parallel Programming
- Reconfigurable Architectures
- Java for Parallel and Distributed Computing
- Optics and Computer Science
- Solving Irregularly Structured Problems in Parallel
- Personal Computer Based Workstation Networks
- Formal Methods for Parallel Programming
- Embedded HPC Systems and Applications

All papers published in the workshops proceedings were selected by the program committee on the basis of referee reports. Each paper was reviewed by independent referees who judged the papers for originality, quality, and consistency with the themes of the workshops.

We would like to thank the General Co-Chair Charles Weems and the General Vice-Chair John Antonio for their support and encouragement, the Steering Committee Chairs, George Westrom and Victor Prasanna, for their guidance and vision, the Program Committee and its chair, Mikhail Atallah, for its technical leadership in organizing the conference and the Finance Chair, Bill Pitts, for making this publication possible. Special thanks are due to Sally Jelinek, for her assistance with meeting publicity, to Susamma Barua for making local arrangements and to Prashanth Bhat for his tireless efforts in interfacing with the organizers.

We gratefully acknowledge sponsorship from the IEEE Computer Society and its Technical Committee of Parallel Processing and the cooperation of the ACM SIGARCH. Finally, we would like to thank Danuta Sosnowska and Germaine Gusthiot for their help in the preparation of this volume.

February 1999  José D. P. Rolim, Workshops Chair and General Co-Chair
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