

Preface

This volume contains the proceedings of the International Symposium on Computing in Object-Oriented Parallel Environments (ISCOPE 99), held in San Francisco, California, USA on December 8–10, 1999. ISCOPE is in its third year,¹ and continues to grow both in attendance and in the diversity of the subjects covered. The original ISCOPE meetings and the predecessor conferences focused more narrowly on scientific computing in the high-performance arena. ISCOPE 98 retained this emphasis, but broadened to include discrete-event simulation, mobile computing, and web-based metacomputing. ISCOPE 99 continues this trend.

The ISCOPE 99 program committee received 41 submissions, and accepted 14 (34%) as regular papers, based on their excellent content, maturity of development, and likelihood for widespread interest. In addition, the program committee selected six submissions as short papers. These papers were deemed to represent important work of a more specialized nature or to describe projects that are still in development.

The 20 papers are divided into seven technical categories:

- Compilers and Optimization Techniques
- New Application Areas
- Components and Metacomputing
- Numerical Frameworks
- Generic Programming and Skeletons
- Application-Specific Frameworks
- Runtime Systems and Techniques

This collection of 20 papers represents today's state of the art in applying object-oriented methods to parallel computing. ISCOPE 99 is truly international in scope, with its 52 contributing authors representing 21 research institutions in 8 countries. The ISCOPE 99 organizers are confident that the reader will share their excitement about this dynamic and important area of computer science and applications research.

At the end of this volume, the author contacts section details the affiliations, postal addresses, and email addresses of all the proceedings authors.

October 1999

Satoshi Matsuoka
Rodney R. Oldehoeft
Marydell Tholburn

¹ The ISCOPE 97 and ISCOPE 98 proceedings are available from Springer as LNCS Volumes 1343 and 1505, respectively.

Steering Committee

Denis Caromel, University of Nice–INRIA Sophia Antipolis
Dennis Gannon, Indiana University
Yutaka Ishikawa, Real World Computing Partnership
Satoshi Matsuoka, Tokyo Institute of Technology
Jörg Nolte, German National Research Center for Information Technology
John Reynders, Los Alamos National Laboratory

Organizing Chairs

John Reynders, Los Alamos National Laboratory, General chair
Satoshi Matsuoka, Tokyo Institute of Technology, Program Chair
Yutaka Ishikawa, Real World Computing Partnership, Posters
Rodney R. Oldehoeft, Los Alamos National Laboratory, Proceedings
Marydell Tholburn, Los Alamos National Laboratory,
Local Arrangements/Publicity
Geoffrey Fox, Syracuse University, Java Grande Activities

Program Committee

Denis Caromel, University of Nice INRIA–Sophia Antipolis, France
Sid Chatterjee, University of North Carolina, USA
Andrew Chien, University of California–San Diego, USA
Jack Dongarra, University of Tennessee/Oak Ridge National Lab, USA
Geoffrey Fox, Syracuse University, USA
Dennis Gannon, Indiana University, USA
Rachid Guerraoui, University of Lausanne EPFL, France
Scott Haney, Los Alamos National Lab, USA
Yutaka Ishikawa, Real-World Computing Partnership, Japan
Jean-Marc Jezequel, IRISA/CNRS, France
L. V. Kale, University of Illinois–UC, USA
Carl Kesselman, University of Southern California/ISI, USA
Doug Lea, State University of New York–Oswego, USA
Charles Norton, NASA JPL, USA
Dan Quinlan, Lawrence Livermore National Lab, USA
Roldan Pozo, National Institute of Science and Technology, USA
Martin Rinard, Massachusetts Institute of Technology, USA
Mitsuhisa Sato, Real-World Computing Partnership, Japan
David Snelling, Fujitsu European Center for Information Technology, UK
Guy L. Steele, Jr., Sun Microsystems Labs, USA
Kenjiro Taura, University of Tokyo, Japan
Andrew Wendelborn, University of Adelaide, Australia
Katherine Yelick, University of California–Berkeley, USA

Computing in Object-Oriented Parallel Environments

Third International Symposium, ISCOPE 99, San

Francisco, CA, USA, December 8-10, 1999 Proceedings

Matsuoka, S.; Oldehoeft, R.R.; Tholburn, M. (Eds.)

1999, VIII, 208 p., Softcover

ISBN: 978-3-540-66818-3