

Preface

Euro-Par

Euro-Par is an international conference dedicated to the promotion and advancement of all aspects of parallel computing. The major themes can be divided into the broad categories of hardware, software, algorithms and applications for parallel computing. The objective of Euro-Par is to provide a forum within which to promote the development of parallel computing both as an industrial technique and an academic discipline, extending the frontier of both the state of the art and the state of the practice. This is particularly important at a time when parallel computing is undergoing strong and sustained development and experiencing real industrial take up. The main audience for and participants in Euro-Par are seen as researchers in academic departments, government laboratories and industrial organisations. Euro-Par's objective is to become the primary choice of such professionals for the presentation of new results in their specific areas. Euro-Par is also interested in applications which demonstrate the effectiveness of the main Euro-Par themes.

There is now a permanent Web site for the series which can be reached at <http://brahms.fmi.uni-passau.de/cl/euopar> where the history of the conference is described. Euro-Par is now sponsored by the Association of Computer Machinery and the International Federation of Information Processing.

Euro-Par'98

The format of Euro-Par'98 follows that of the past two conferences and consists of a number of workshops each individually monitored by a committee of four. There were 23 original workshops for this year's conference. The call for papers attracted 238 submissions of which 129 were accepted. Of the papers accepted 5 were judged as distinguished, 70 as regular and 54 as short papers. Distinguished papers are allowed 12 pages in the proceedings and 30 minutes for presentation, regular papers are allowed 8 pages and 15 minutes for presentation, short papers are allowed 4 pages and 15 minutes for presentation. Two extra pages could be purchased. There were on average 3.6 reviews per paper. Submissions were received from 33 countries 26 of which are represented at the conference. The principal contributors by country are the UK with 23 papers, Germany 22, France 19 and the USA 16.

The Web site for the conference is at <http://www.euopar98.ecs.soton.ac.uk>.

Acknowledgements

Knowing the quality of past Euro-Par conferences makes the task of organising one daunting indeed and we have many people to thank. Ron Perrott, Christian

Lengauer and Luc Bougé have given us the benefit of their experience and helped us generously throughout the past 18 months. The workshop structure of the conference means that we must depend on the goodwill and enthusiasm of all the 77 programme committee members listed below. Their professionalism makes this the most academically rigorous conference in the field worldwide. The programme committee meeting at Southampton in April was well attended and thanks to sound preparation by everyone and Ron Perrott's guidance resulted in a coherent, well structured conference. The smooth running of the organisation of the conference can be attributed to a few individuals. Firstly the software for the submission and refereeing of the papers that we inherited from Lyons via Passau was significantly enhanced by Flavio Bergamaschi. This attracted many compliments from those who benefited. Panagiotis Melas ably assisted by Duncan Simpson spent copious hours checking, printing and correcting papers. Finally Lesley Courtney, secretary to the conference and the research group, has been invaluable in monitoring the conference organisation and seeing to the myriad of tasks that invariably arise, including organising the social programme.

Southampton, June 1998

Jeff Reeve and David Pritchard.

Euro-Par Steering Committee

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Vice Chair

Emilio Zapata University of Malaga, Spain

Committee

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Christian Lengauer	University of Passau, Germany
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Marian Vajtersic	Slovak Academy, Slovakia
Jens Volkert	Johannes Kepler University, Austria
Makoto Amamiya	Kyushu University, Japan

Euro-Par'98 Local Organisation

The conference has been organised by the Concurrent Computation Group of the Department of Electronics & Computer Science, University of Southampton

Chairs

Tony Hey
Jeff Reeve

Committee

Alistair Dunlop
Hugh Glaser
Luc Moreau
Mark Papiani
David Pritchard

Secretary

Lesley Courtney

Technical Support

Flavio Bergamaschi
Panagiotis Melas
Duncan Simpson

Martin Rinard MIT, USA
Martin Griebl University of Passau, Germany

Workshop 5+9+15: Distributed Systems and Database Systems

Global Chairs

Andreas Reuter	International University in Germany
Ernst Mayr	TU Munich, Germany

Local Chairs

Lionel Brunie	ENS Lyon, France
Pavlos Spirakis	CTI, Greece
Kam-Fai Wong	Hong Kong University

Vice Chairs

Harald Kosch	University of Klagenfurt, Austria
Usama Fayyad	Microsoft
Arbee Chen	National Tsing Hua University, Taiwan
Friedemann Mattern	TU Darmstadt, Germany
Marios Mavronicolas	University of Cyprus, Cyprus

Workshop 6+16+18: Languages

Global Chairs

Denis Caromel	University de Nice - INRIA Sophia Antipolis
Christian Lengauer	University of Passau, Germany
Mike Quinn	Oregon State University

Local Chairs

Antonio Corradi	University of Bologna, Italy
Henk Sips	Technical University, Delft, Netherlands
Murray Cole	University of Edinburgh, UK

Vice Chairs

Gul Agha	University of Illinois
Geoffrey Fox	University of Syracuse
Phil. Hatcher	University of New Hampshire, USA
Luc Bougé	ENS Lyon, France
Beverly Sanders	University of Florida, Gainesville
Gaétan Hains	University of Orléans, France

Workshop 7+20: Numerical and Symbolic Algorithms

Global Chairs

Wolfgang Küchlin	University of Tübingen, Germany
Maurice Clint	Queen's University Belfast, UK

Local Chairs

Ali Abdallah	University of Reading, UK
Marian Vajtersic	Slovak Academy, Slovakia

Vice Chairs

Krzysztof Apt	CWI, Netherlands
Kevin Hammond	University of St. Andrews, Scotland
Michael Thune	University of Upsala, Sweden
Peter Arbenz	Institute for Sci. Computing, Switzerland

Workshop 10+17+21+22: Theory and Applications of Parallel Computation

Global Chairs

Bill McColl	Oxford University, UK
Mike Brady	University of Oxford, UK
Paul Messina	California Institute of Technology
Freidel Hossfeld	Forschungszentrum Julich GmbH, Germany

Local Chairs

Michel Cosnard	INRIA, Nancy, France
Paul Lewis	University of Southampton, UK
Ed Zaluska	University of Southampton, UK

Vice Chairs

Andrea Pietracaprina	University of Padova, Italy
Frank Dehne	Carlton University, Canada
Patrice Quinton	IRISA-CNRS, Rennes, France
Hartmut Schmeck	University of Karlsruhe, Germany
Rajeev Thakur	Argonne National Laboratory, USA
David Walker	University of Wales, UK

Workshop 13+14: Architectures and Networks

Global Chairs

Abhiram Ranade	Indian Institute of Technology, Bombay
Mateo Valero	UPC Barcelona, Spain

Local Chairs

Kieran Herley	University College Cork, Eire
David Snelling	FECIT, UK

Vice Chairs

Sanguthevar Rajasekaran	University of Florida
Geppino Pucci	University of Padova, Italy
Olivier Temam	University of Versailles, France
Nigel Topham	University of Edinburgh, UK
Rupert Ford	University of Manchester, UK

Esprit Workshop

Global Chair

Ron Perrott	Queen's University Belfast
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Local Chair

Colin Upstill	PAC, University of Southampton
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Vice Chairs

Jesus Labarta	Universitat Politecnica de Catalunya, Spain
Karl Solchenbach	PALLAS, Germany

Other Referees

Arbab, Farhad
 Barthou, Denis
 Bischof, Stefan
 Buffo, Mathieu
 Detert, Ulrich
 Ellmenreich, Nils
 Erlebach, Thomas
 Esser, Ruediger
 Flammini, Michele
 Foisy, Christian
 Formenti, Enrico
 Friedetzky, Tom
 Gerndt, Michael
 Gorlatch, Sergei
 Harmer, Terence
 Hascoet, Laurent
 Hege, Hans-Christian
 Herrmann, Christoph
 Hogstedt, Karin
 Irigoien, Francois
 Jerraya, Ahmed
 Lazure, Dominique
 Lim, Amy
 Ludwig, Thomas

Massingill, Berna
 Mattern, Friedemann
 McKendrick, Rob
 Mehaut, Jean-Francois
 Mery, Dominique
 Mountjoy, Jon
 Namyst, Raymond
 Pazat, Jean-Louis
 Perez, Christian
 Rauber, Thomas
 Redon, Xavier
 Robert, Yves
 Scales, Dan
 Schwabe, Eric
 Stadtherr, Hans
 Stewart, Alan
 Surridge, Mike
 Thompson, Simon
 Trinder, Phil
 Utard, Gil
 Vivien, Frederic
 Wedler, Christoph
 Wonnacott, David
 Zait, Mohamed

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