

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/europar> 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.europar98.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

Chair

Ron Perrott Queen's University Belfast, UK

Vice Chair

Emilio Zapata University of Malaga, Spain

Committee

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 Paul Spirakis CTI, Greece
 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

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 |
|-------------|----------------------------|

Local Chair

| | |
|---------------|--------------------------------|
| Colin Upstill | PAC, University of Southampton |
|---------------|--------------------------------|

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
Irigoin, Francois
Jerraya, Ahmed
Lazure, Dominique
Lim, Amy
Ludwig, Thomas
Massingill, Berna
Mattern, Friedemann
McKendrick, Rob
Mehaut, Jean-Francois
Mery, Dominique
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Namyst, Raymond
Pazat, Jean-Louis
Perez, Christian
Rauber, Thomas
Redon, Xavier
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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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