

# Preface

Euro-Par – the European Conference on Parallel Computing – is an international conference series 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 frontiers 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 aims 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 that demonstrate the effectiveness of the main Euro-Par themes.

Euro-Par has its own Internet domain with a permanent web site where the history of the conference series is described: <http://www.euro-par.org>. The Euro-Par conference series is sponsored by the Association of Computer Machinery and the International Federation of Information Processing.

## **Euro-Par 2001**

Euro-Par 2001 was organised by the University of Manchester and UMIST. Manchester has a long tradition in computing and currently hosts CSAR (Computer Services for Academic Research), a high performance computing service run on behalf of the UK Research Councils by a consortium of SGI, CSC, and the University of Manchester, offering access to world-class high-performance computing facilities.

The format of Euro-Par 2001 follows that of the previous five editions of the conference and consists of a number of topics each individually monitored by a committee of four members. There were originally 20 topics for this year's conference one of which was included for the first time: Parallel and Distributed Embedded Systems. The call for papers attracted 207 submissions of which 108 were accepted. Of the papers accepted, 69 were presented as regular and 39 as research notes. There were 830 reviews collected, an average of 4.01 reviews per paper. Submissions were received from 38 countries (based on the corresponding author's country), 25 of which were represented at the conference. The principal contributors by country were Spain and the UK with 29 submissions each, USA with 26, France with 21 and Germany with 20.

The programme of Euro-Par 2001 also featured invited talks from Jack Don-  
garra, Ian Foster, Dennis Gannon, Tony Hey, Martin Kersten, and Thomas Ster-  
ling. The conference's web site is <http://europar.man.ac.uk/>.

## Acknowledgments

The organisation of an international event such as Euro-Par 2001 was a difficult and time-consuming task that could not have been accomplished without the help of numerous people. First, we are especially grateful to Christian Lengauer and Ron Perrott from the Steering Committee as well as last year's organisers, Thomas Ludwig and Roland Wismüller especially, who gave us the benefit of their experience in the 18 months leading to the conference. We are grateful also to the nearly 80 members of the programme committee, who contributed to form an excellent scientific programme. The programme committee meeting at Manchester in April was well attended and, thanks to the sound preparation by everyone and Christian Lengauer's guidance, resulted in a coherent, well-structured conference.

Locally, there were several people whose help was instrumental at various stages and to whom we owe special thanks. First, our colleagues in the Local Organisation Committee, John Brooke, Terry Hewitt, and Kaukab Jaffri, spent considerable time and effort to make the conference a success. Joanna Leng was involved at the initial preparation phase and was our liaison with last year's organisers. YingLiang Ma maintained the conference's web site. Christopher Rauh, from Munich, came to Manchester for a week and installed a new version of the legacy software for the submission and review of papers which provided the basis for a fully online reviewing system. Owen LeBlanc provided administration support for the computer systems used to host the conference's web site and the paper management software. Finally, Andrew Yates and Janet Adnams from the Manchester Conference Centre supported us with the handling of registration and local arrangements.

Manchester, June 2001

Rizos Sakellariou  
John Keane  
John Gurd  
Len Freeman



## Euro-Par 2001 Programme Committee

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Scott B. Baden	University of California, San Diego, USA
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**Local Chair**

Paul H. J. Kelly	Imperial College, London, UK
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Bernard Philippe	IRISA/INRIA-Rennes, France

**Topic 12: Routing and Communication in Interconnection Networks****Global Chair**

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**Topic 13: Instruction-Level Parallelism and Architecture****Global Chair**

Guang R. Gao	University of Delaware, USA
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Rizos Sakellariou	University of Manchester, UK
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**Vice Chairs**

Eduard Ayguadé	Universitat Politècnica de Catalunya, Spain
Christine Eisenbeis	INRIA-Rocquencourt, France

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**Topic 17: Metacomputing and Grid Computing**

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**Topic 18: Parallel I/O and Storage Technology****Global Chair**

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**Topic 20: Parallel and Distributed Embedded Systems****Global Chair**

Stamatis Vassiliadis	TU Delft, The Netherlands
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**Local Chair**

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**Vice Chairs**

Francky Catthoor	IMEC, Belgium
Mateo Valero	Universitat Politècnica de Catalunya, Spain

## Euro-Par 2001 Referees

(not including members of the programme and organisation committees)

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Addison, Cliff	Chatterjee, Sid
Adve, Vikram	Choi, Sung-Eun
Agrawal, Gagan	Chretienne, Philippe
Amaral, Jose Nelson	Ciaccio, Giuseppe
Amarsinghe, Saman	Cilio, Andrea
Amiranoff, Pierre	Cohen, Albert
Ancona, Massimo	Cohen, Norman
Anglano, Cosimo	Coppola, Massimo
Anterrieu, Eric	Corbal, Jesus
Apon, Amy	Costa, Gerardo
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Ashworth, Mike	Dail, Holly
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Baiao, Fernanda	Demsky, Brian
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Bane, Michael	Diaz de Cerio, Luis
Basermann, Achim	Dijkstra, Marjolein
Beaumont, Olivier	Dolbeau, Romain
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Bylaska, Eric	Fischer, Markus
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Garcia, Jordi	Inda, Marcia
Gatlin, Kang Su	Irigoin, François
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Gerlach, Jens	Johnson, David
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Gonzalez, Manuel	Katz, Daniel
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Henty, David	Kshemkalyani, Ajay
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Hill, Steve	Kumar, Rishi
Hogstedt, Karin	Kuzmanov, Georgi
Hollingsworth, Jeff	Kwiatkowski, Jan
Hoteit, Hussein	Lageweg, Casper
Hoy, Jeff	Langou, Julien
Hu, Ziang	Lanteri, Stéphane

Larrea, Mikel  
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 Lechtchinsky, Roman  
 Leclerc, Tony  
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 Lee, Kukjin  
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 Limousin, Claude  
 Loukopoulos, Thanasis  
 Lourenço, Joao  
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 Lu, Paul  
 Luecke, Glenn  
 Luján, Mikel  
 Luksch, Peter  
 Luque, Emilio  
 Lysne, Olav  
 Ma, Xiaosong  
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 Marquez, Andres  
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 Mehofer, Eduard  
 Melon, Anne  
 Merzky, André  
 Meurant, Gerard  
 Michaud, Pierre  
 Miguel, Jose  
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 Miller, Crispin  
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 Newhouse, Steven  
 Nisbet, Andy  
 Nolte, Jorg  
 Obertelli, Graziano  
 O'Donnell, John  
 Ogston, Elizabeth  
 Oguz, Ceyda  
 Omnes, Thierry  
 Ong, Hong  
 Orduña, Juan Manuel  
 Ortega, Daniel  
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 Padua, David  
 Paprzycki, Marcin  
 Parchment, Oz  
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 Peh, Li-Shiuan  
 Pelagatti, Susanna  
 Peyre, Jean-François  
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 Piccardi, Massimo  
 Piernas, Juan  
 Pinotti, Maria Cristina  
 Plateau, Brigitte  
 Poitrenaud, Denis  
 Priol, Thierry  
 Pucceli, Riccardo  
 Puente, Valentin  
 Quinlan, Dan  
 Rabhi, Fethi  
 Ramanujam, J.  
 Ramirez, Alex

XVIII Referees

Ranganathan, Parthasarathy  
Rankin, Ricky  
Rantakokko, Jarmo  
Rastello, Fabrice  
Rathmayer, Sabine  
Rauchwerger, Lawrence  
Reeber, Erik  
Reggio, Gianna  
Retalis, Simos  
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Riual, Jean-Christophe  
Robinson, Guy  
Rodrigues, Luis  
Rodríguez, Casiano  
Roman, Jean  
Roos, Steven  
Rownstron, Antony  
Rubio, Angel  
Rünger, Gudula  
Rüthing, Oliver  
Sahelices, Benjamin  
Sampaio, Sandra  
Sanchez, Jesus  
Santonja, Vicente  
Sazeides, Yiannakis  
Schikuta, Erich  
Schintke, Florian  
Schreiber, Robert  
Schulz, Martin  
Scott, Stephen  
Sebot, Julien  
Seinturier, Lionel  
Sellars, Malcolm  
Sellmann, Meinolf  
Senar, Miquel A.  
Shapiro, Marc  
Shende, Sameer  
Shields, Matthew  
Silva, Claudio  
Silva, Joao Gabriel  
Sivasubramaniam, Anand  
Smith, Alison  
Smith, Garry  
Smith, Jim  
Smith, Lorna

Sousa, Leonel  
Sreedhar, Vugranam  
van der Stappen, Frank  
Stathis, Pyrrhos  
Stéfani, Jean-Bernard  
Stewart, Craig  
van Straalen, Brian  
Su, Alan  
de Supinski, Bronis  
Sura, Zehra  
Suter, Frederic  
Symvonis, Antonios  
Takeda, Kenji  
Takefusa, Atsuko  
Talbi, El-Ghazali  
Tang, Xinan  
Tel, Gerard  
Temam, Olivier  
Tiskin, Alexandre  
Tok, Teck  
Torres, Jordi  
Traff, Jesper Larsson  
Trancoso, Pedro  
Trefethen, Anne  
Trystram, Denis  
Tseng, Chau-Wen  
Tseng, Yu-Chee  
Tyrtysnikov, Evgeni  
Utard, Gil  
Vajtersic, Marian  
Vallejo, Fernando  
Van Oudheusden, Karel  
Vernick, Michael  
Vetter, Jeffrey  
Voemel, Christof  
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Wang, C. L.  
Wanka, Rolf  
Wasserman, Harvey  
Watson, Ian  
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Whalley, David  
Wismueller, Roland  
Wong, Stephan  
Worley, Patrick

Wu, Haiping  
Wu, Jie  
Wu, Peng  
Wylie, Brian  
Yang, Hongbo  
Yang, Tao  
Yau, Hon  
Yotov, Kamen  
Yu, Shengke  
Zegeling, Paul  
Zhao, Rongcai  
Zima, Hans



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