

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

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Euro-Par 2001 Local Organisation

Euro-Par 2001 was jointly organised by the University of Manchester and UMIST.

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Kaukab Jaffri	John A. Keane
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INRIA-Rocquencourt, France

Topic 15: Architectures and Algorithms for Multimedia Applications

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Michael Vernick	Lucent Bell Labs, USA

Topic 16: Cluster Computing

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Topic 17: Metacomputing and Grid Computing

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Universitat Politècnica de Catalunya, Spain

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(not including members of the programme and organisation committees)

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Agrawal, Gagan
Amaral, Jose Nelson
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Ancona, Massimo
Anglano, Cosimo
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 Kumar, Rishi
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 Lanteri, Stéphane

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 Quinlan, Dan
 Rabhi, Fethi
 Ramanujam, J.
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XVIII Referees

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Rankin, Ricky
Rantakokko, Jarmo
Rastello, Fabrice
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Rauchwerger, Lawrence
Reeber, Erik
Reggio, Gianna
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Schulz, Martin
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Sebot, Julien
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Sellmann, Meinolf
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Silva, Joao Gabriel
Sivasubramaniam, Anand
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Smith, Jim
Smith, Lorna

Sousa, Leonel
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Stewart, Craig
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Suter, Frederic
Symvonis, Antonios
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Talbi, El-Ghazali
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Traff, Jesper Larsson
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Trystram, Denis
Tseng, Chau-Wen
Tseng, Yu-Chee
Tyrtysnikov, Evgeni
Utard, Gil
Vajtersic, Marian
Vallejo, Fernando
Van Oudheusden, Karel
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Walker, Paul
Wang, C. L.
Wanka, Rolf
Wasserman, Harvey
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Wismueller, Roland
Wong, Stephan
Worley, Patrick

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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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