Preface

In theory, the term middleware denotes any software that can be used for more than one application. In practice, the term middleware tends to denote software abstractions for distributed computing, including communication abstractions such as RPC, and reliability abstractions such as transactions. Devising and implementing such adequate abstractions has constituted an active area of research in the last decade, bridging the gap between various fields, including programming languages, distributed systems, networking, and databases.

Middleware 2001 built upon the success of Middleware 2000 and Middleware 1998, as ideal forums for researchers and industrialists in these fields to present and discuss the latest middleware results.

Among the 116 initial submissions to Middleware 2001, 20 papers were selected for inclusion in the technical program of the conference. Every paper was reviewed by at least three members of the program committee. The selection of the papers was performed during a program committee meeting, held in Lausanne on 6 July 2001. The papers were judged according to their originality, presentation quality, and relevance to the conference topics. The accepted papers cover various subjects such as mobility, scalability, quality of service, and reliability.

I would like to express my deepest appreciation to the authors of the submitted papers, to the program committee members for their diligence in reviewing the submissions, to Richard van de Stadt for perfectly running CyberChair, and finally to the members of the steering committee and the other organizing committee members for their efforts towards making Middleware 2001 a successful conference.

August 2001

Rachid Guerraoui
Organization

Middleware 2001 was organized under the auspices of IFIP TC6 WG6.1 (International Federation for Information Processing, Technical Committee 6 [Communications Systems]. Working Group 6.1 [Architecture and Protocols for Computer Networks]).

Steering Committee

Gordon Blair, Lancaster University
Jan de Meer, Condat AG
Peter Honeyman, CITI, University of Michigan
Guy LeDuc, University of Liege
Kerry Raymond, DSTC
Alexander Schill, TU Dresden
Jacob Slonim, Dalhousie University

Sponsoring Institutions

IFIP (International Federation for Information Processing)
http://www.ifip.or.at

ACM (Association for Computing Machinery)
http://www.acm.org

Cooperating Institutions

USENIX
http://www.usenix.org

ACM SIGCOMM
http://www.acm.org/sigcomm/

ACM SIGOPS
http://www.acm.org/sigops/
Supporting Companies

- **Agilent Technologies**
  - [http://www.agilent.com](http://www.agilent.com)

- **BBN Technologies**
  - [http://www.bbn.com](http://www.bbn.com)

- **IBM**

Organizing Committee

- **General Chair:** Joe Sventek, Agilent Laboratories
- **Program Chair:** Rachid Guerraoui, EPFL
- **WIP and Poster Chair:** Maarten van Steen, Vrije Universiteit
- **Tutorials Chair:** Frank Buschmann, Siemens AG
- **Publicity Chair:** Joe Sventek, Agilent Laboratories
- **Advanced Workshop Chair:** Guruduth Banavar, IBM
- **Local Arrangements Chair:** Alex Buchmann, Universität Darmstadt
Program Committee

Gustavo Alonso ETH Zürich
Jean Bacon University of Cambridge
Gregor v. Bochmann University of Ottawa
Geoff Coulson Lancaster University
Naranker Dulay Imperial College
Jean-Charle Fabre Laas-CNRS
Pascal Felber Bell Labs
Svend Frølund HP Labs
Peter Honeyman CITI, University of Michigan
Yennun Huang AT&T Labs
Anne-Marie Kermarrec Microsoft Research
Doug Lea SUNY at Oswego
Christoph Liebig Universität Darmstadt
Claudia Linnhoff-Popien Universität München
Silvano Maffeis Softwired Inc.
Louise Moser University of California at Santa Barbara
Fabio Panzieri Università di Bologna
Luis Rodrigues Universidade de Lisboa
Isabelle Rouvellou IBM
Santosh Shrivastava Newcastle University
Jean-Bernard Stefani INRIA, Grenoble
Zahir Tari RMIT University
Steve Vinoski IONA Technologies
Werner Vogels Cornell University
Referees

Alok Aggarwal
Alessandro Amoroso
Pedro Antunes
Filipe Araújo
Gordon Blair
Alejandro Buchmann
Antonio Casimiro
Dan Chalmers
Mariano Cilia
Nick Cook
Thierry Coupaye
Silvano Dal Zilio
Lou Degenaro
Matt Denny
Bruno Dillenseger
Deepak Dutt
Khalil El-Khatib
Christian Ensel
Paul D. Ezhilchelvan
António Ferreira
Ludger Fiege
Markus Garschhammer
Ioannis Georgiadis
Vittorio Ghini
Indranil Gupta
Nabila Hadibi
Daniel Hagimont
Peer Hasselmeyer
Rainer Hauck
Naomaru Itoi
Axel Küpper
Roger Kehr
Terence P. Kelly
Bernhard Kempter
Brigitte Kerhervé
Arasnath Kimis
Olga Korniévskaja
Samuel Kounev
Alexandre Lefebvre
Claudia Limnhoff-Popien
Mark C. Little
Emil Lupu

Gero Mühl
Vania Marangozova
Eric Marsden
Stan Matwin
Patrick McDaniel
P.M. Melliar-Smith
Thomas A. Mikalsen
Hugo Miranda
Graham Morgan
Lukasz Opyrchal
José Orlando Pereira
Peter Pietzuch
Nuno Preguica
Niels Provos
Igor Radisic
Pedro Rafael
Kerry Raymond
Helmut Reiser
Marco Rocetti
Manuel Rodriguez
Harald Roelle
Alex Romanovsky
David Rosenblum
Juan-Carlos Ruiz
Mohamed-Vall M. Salem
Michael Samulowitz
Holger Schmidt
Marc Shapiro
Mário J. Silva
Jacob Slonim
Jesper H. Spring
Jan Steffan
Stanley M. Sutton Jr.
François Tăuni
Stefan Tai
Gerald Vogt
Shalini Yajnik
Walt Yao
Haiwei Ye
Andreas Zeidler
Stuart M. Wheater
Middleware 2001
IFIP/ACM International Conference on Distributed
Systems Platforms Heidelberg, Germany, November
12-16, 2001, Proceedings
Guerraoui, R. (Ed.)
2001, XIV, 398 p., Softcover
ISBN: 978-3-540-42800-8