Proceedings

Ninth IEEE International Symposium on Object and Component-Oriented Real-Time Distributed Computing

ISORC 2006

24-26 April 2006 • Gyeongju, Korea

Edited by
Sunggu Lee
Uwe Brinkschulte
Bhavani Thuraisingham Robert G. Pettit IV

Co-sponsored by
IEEE Computer Society Technical Committee on Distributed Processing
Konkuk University Software Research Center
Korea Information Science Society

In cooperation with
OMG
IFIP WG 10.4
Air Force Office of Scientific Research, Asian Office of Aerospace Research and Development (AFOSR/AOARD)
Electronics and Telecommunications Research Institute, Korea
Korea Science and Engineering Foundation

Los Alamitos, California

Washington • Tokyo

IEEE Computer Society Order Number P2561
ISBN-13: 978-0-7695-2561-7
ISBN-10: 0-7695-2561-X
Library of Congress Number 2006920861

Additional copies may be ordered from:

IEEE Computer Society
Customer Service Center
10662 Los Vaqueros Circle
P.O. Box 3014
Los Alamitos, CA 90720-1314
Tel: + 1 800 272 6657
Fax: + 1 714 821 4641
http://computer.org/cspress
csbooks@computer.org

IEEE Service Center
445 Hoes Lane
P.O. Box 1331
Piscataway, NJ 08855-1331
Tel: + 1 732 981 0060
Fax: + 1 732 981 9667
http://shop.ieee.org/store/
customer-service@ieee.org

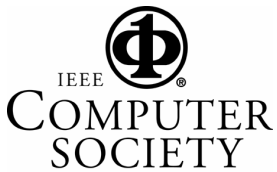
IEEE Computer Society
Asia/Pacific Office
Watanabe Bldg., 1-4-2
Minami-Aoyama
Minato-ku, Tokyo 107-0062
JAPAN
Tel: + 81 3 3408 3118
Fax: + 81 3 3408 3553
tokyo.ofc@computer.org

Individual paper REPRINTS may be ordered at: reprints@computer.org

Editorial production by Stephanie Kawada

Cover art production by Joe Daigle/Studio Productions

Printed in the United States of America by Applied Digital Imaging



IEEE Computer Society
Conference Publishing Services
http://www.computer.org/proceedings/

Proceedings

ISORC 2006

Table of Contents

Session 1B: System Design

Session 2A: Embedded Systems

Session 2B: Software Design

Session 3A: Wireless and Sensor Networks

Session 3B: Industrial Advances

Session 4A: Middleware

Session 4B: Systems Modeling

Session 5: Keynote Speech

Session 6: Panel

Towards Developing a Secure Dependable System: Development, Issues, and Challenges

Moderator: Uwe Brinkschulte
Panelists: Bhavani Thuraisingham
Miguel A. de Miguel
Peter Puschner
Raymond Paul
Stephen S. Yau

Session 7A: UML and Modeling

Session 7B: Real-Time Systems

Session 8: Fundamental Issues in Distributed Real-Time Computing

Session 9A: Language Support and Design Patterns

Session 9B: Data Communication

Session 10A: Fault-Tolerance and Security

Session 10B: Performance Evaluation