Distributed Applications
and Interoperable Systems II
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IFIP was founded in 1960 under the auspices of UNESCO, following the First World Computer Congress held in Paris the previous year. An umbrella organization for societies working in information processing, IFIP's aim is two-fold: to support information processing within its member countries and to encourage technology transfer to developing nations. As its mission statement clearly states,

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IFIP is a non-profitmaking organization, run almost solely by 2500 volunteers. It operates through a number of technical committees, which organize events and publications. IFIP's events range from an international congress to local seminars, but the most important are:

- The IFIP World Computer Congress, held every second year;
- open conferences;
- working conferences.

The flagship event is the IFIP World Computer Congress, at which both invited and contributed papers are presented. Contributed papers are rigorously refereed and the rejection rate is high.

As with the Congress, participation in the open conferences is open to all and papers may be invited or submitted. Again, submitted papers are stringently refereed.

The working conferences are structured differently. They are usually run by a working group and attendance is small and by invitation only. Their purpose is to create an atmosphere conducive to innovation and development. Refereeing is less rigorous and papers are subjected to extensive group discussion.

Publications arising from IFIP events vary. The papers presented at the IFIP World Computer Congress and at open conferences are published as conference proceedings, while the results of the working conferences are often published as collections of selected and edited papers.

Any national society whose primary activity is in information may apply to become a full member of IFIP, although full membership is restricted to one society per country. Full members are entitled to vote at the annual General Assembly, National societies preferring a less committed involvement may apply for associate or corresponding membership. Associate members enjoy the same benefits as full members, but without voting rights. Corresponding members are not represented in IFIP bodies. Affiliated membership is open to non-national societies, and individual and honorary membership schemes are also offered.
Distributed Applications and Interoperable Systems II

IFIP TC6 WG6.1 Second International Working Conference on Distributed Applications and Interoperable Systems (DAIS’99)
June 28-July 1, 1999, Helsinki, Finland

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Preface

Conference committees

Session I  Quality of Service

1  Fault management in QoS-enabled distributed systems
   Stefan Käther and Kurt Geihs
   3

2  A QoS support framework for dynamically reconfigurable multimedia applications
   Scott Mitchell, Hani Naguib, George Coulouris and Tim Kindberg
   17

3  Integration of quality of service in distributed object systems
   Jérôme Daniel, Bruno Traverson and Sylvie Vignes
   31

4  Flexible event-based threading for QoS-supporting middleware
   Thorsten Kramp and Rainer Koster
   45

Session II  Invited talk

5  An ODP approach to the development of large middleware systems
   Peter F. Linington
   61

Session III  Open architectures

6  Sovereign systems and dynamic federations
   Lea Kuitvonen
   77
<table>
<thead>
<tr>
<th>Session IV Invited talk</th>
</tr>
</thead>
<tbody>
<tr>
<td>9 An overview of CORBA 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session V Frameworks and tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 A component framework for the configuration management of networks</td>
</tr>
<tr>
<td>11 A flexible framework for development of component-based distributed systems</td>
</tr>
<tr>
<td>12 The Lilith framework for the rapid development of secure scalable tools for distributed computing</td>
</tr>
<tr>
<td>13 CORBA wrappers for a-posteriori management: An approach to integrating management with existing heterogeneous systems</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Session VI Agents and mobility</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 Mobile agents and security: protocols for integrity</td>
</tr>
<tr>
<td>15 Invoking computational objects on mobile devices</td>
</tr>
<tr>
<td>16 Scenario-driven design considerations for MANET protocols</td>
</tr>
<tr>
<td>17 CIA - A collaboration and coordination infrastructure for personal agents</td>
</tr>
</tbody>
</table>
18 An intra- and inter-domain placement using a multicriteria method to optimize resource access in CORBA

Huah Yong Chan and Bénédicte Herrmann

Session VII  Management aspects

19 Automated CORBA-based application management

Reinhold Kröger, Markus Debusmann, Christoph Weyer, Erik Brossler, Paul Davern and Aiden McDonald

20 A configuration management facility for CORBA applications

Cláudio M. Silveira and Edmundo R. M. Madeira

21 Flexible software agents for the automatic provision of PVCs in ATM networks

Morsy M. Cheikhrouhou, Pierre O. Conti and Jacques Labetoulle

22 Multi-layer monitoring in distributed object-environments

Günther Rackl

Session VIII  Language interoperability

23 Can CORBA save a fringe language from becoming obsolete?

Susan Eisenbach, Emil Lupu, Karen Meidl and Hani Rizkallah

24 Programming language interoperability in distributed computing environments

H.-Arno Jacobsen

25 Consistent windowing interfaces in distributed heterogeneous environments

Daniel Owen and Alasdair Rawsthorne

Session IX  Workflow and UML Issues

26 Experiences with business object-based workflow support

Alexander Schill and Christian Mittasch

27 A process decomposition technique for distributed workflow management

Giacomo Piccinelli

28 Constraint-oriented formal modelling of OO-systems

Günter Graw, Peter Herrmann and Heiko Krumm
Session X  Fault tolerance

29 Design and implementation of a CORBA fault-tolerant object group service 361
   Graham Morgan, Santosh Shrivastava, Paul Ezhilchelvan and Mark Little

30 Replicating CORBA objects: A marriage between active and passive replication 375
   Pascal Felber, Xavier Défago, Patrick Eugster and André Schiper

31 The Jgroup distributed object model 389
   Alberto Montresor

Session XI  Electronic commerce

32 Distribution issues in the design and implementation of a virtual market place 405
   Yigal Hoffner, Christian Facciorusso, Simon Field and Andreas Schade

33 Interaction-oriented rule management for mobile agent applications 423
   M. Tuan Tu, Frank Griffel, Michael Merz and Winfried Lamersdorf

34 Closed user groups in Internet service centres 439
   Sebastian Staamann, Levente Buttyán, Allan Coignet, Ernesto Ruggiano, Uwe Wilhelm and Marc Zweiäcker

Author index 453

Topic index 455

Sponsors 457
Preface

This volume contains the proceedings of the IFIP WG 6.1 International Working Conference on Distributed Applications and Interoperable Systems II (DAIS’99) held in Helsinki, Finland, on June 28 through July 1, 1999.

The conference program presents the state of the art in research concerning distributed and interoperable systems. This is a topical research area where much activity is currently in progress. Interesting new aspects and innovative contributions are still arising regularly. DAIS series of conferences is one of the main international forums where these important findings are reported.

The papers presented at DAIS’99 cover distributed applications, middleware platforms (CORBA, RMI, etc.), software architectures for open distributed systems (RMON-ODP, OMA, etc.), management, security and quality of service issues in distributed systems, software agents, mobility, electronic commerce, Internet and other related problem areas.

These proceedings contain 25 regular and 7 short papers, which have been selected in a careful reviewing procedure with at least three reviews for each paper. In addition, the texts of two invited talks by Peter Linington and Jon Siegel are included. There were 88 submissions to the conference.

DAIS’99 was sponsored by IFIP (International Federation of Information Processing) and it is the second conference in DAIS series of events organized by IFIP Working Group 6.1. of the IFIP Technical Committee TC6 (Communication Systems). The first conference in this series, DAIS’97, took place in 1997 in Cottbus, Germany. Before that, similar national and international workshops were arranged in Germany in years 1993-1996.

DAIS’99 was organized by the Department of Computer Science of the University of Helsinki, which provided the premises for the event. Formally, the local host organization was the Finnish Society of Computer Science. The conference was financially also sponsored by The Academy of Finland, Nokia Corporation, IBM, Sun Microsystems, Sonera, UNISYS, and Helsinki Graduate School of Computer Science and Engineering.
Finally, we would like to take this opportunity to thank the numerous people whose work made this conference possible. The reviewing was a major effort and it was completed by 98 people from all around the world. The reviewers are listed in this proceedings. The local organizing committee, listed also in this book, was responsible for running the conference with the help of the AREA conference team.

Lea Kutvonen, Hartmut König, and Martti Tienari
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