Welcome to CAiSE’02

Since the late 1980’s, the CAiSE conferences have provided a forum for presentation and exchange of research results and practical experiences within the field of Information Systems Engineering.

The main theme of this year’s CAiSE conference focuses on technologies and methodologies for building “Web-Based Information Systems”. Web-based systems have become the status quo in information systems engineering practice in a very short time. This change poses significant challenges to the research community, such as faster time-to-market, increased concerns for security and performance, open and evolving software architectures and more.

CAiSE’02 is a special edition of the CAiSE conference series, being the first one to be held outside Europe. To celebrate the occasion, we have worked hard to put together an exceptional technical programme.

Of course, the technical programme is not the only attraction of the conference. The conference hotel is located in the core downtown area of Toronto, within walking distance of museums, parks, shopping areas and tourist attractions such as the CN tower, the Harbourfront or the Ontario Lake. Toronto has been called the most multicultural city in the world and while in Toronto, you will have the opportunity to visit neighborhoods that have the distinctive ethnic flavour of parts of the Far East and Europe. More than that, Toronto is a well-run, safe city that visitors enjoy visiting again and again.

We hope you enjoy the week !!

M. Tamer Özsu
General Chair

John Mylopoulos & Carson Woo
Programme Co-Chairs

Jarek Gryz & Richard Paige
Panel & Tutorial Co-Chairs

Patrick Martin
Workshop and Poster Chair

Manuel Kolp
Local & Publicity Chair

Anne Pidduck
Proceedings Chair
CAiSE’02 Committees

Organization Committee

General Chair: M. Tamer Özsu, University of Waterloo, Canada
Programme Co-Chairs: John Mylopoulos, University of Toronto, Canada
Carson Woo, University of British Columbia, Canada
Panel and Tutorial Co-Chairs: Jarek Gryz, College of William and Mary, USA
Richard Paige, York University, Canada
Workshop and Poster Chair: Patrick Martin, Queen’s University, Canada
Local and Publicity Chair: Manuel Kolp, University of Louvain, Belgium
Proceedings Chair: Anne Pidduck, University of Waterloo, Canada

Programme Committee

Ken Barker (Canada)  Michele Missikoff (Italy)
Daniel Berry (Canada)  David Monarchi (USA)
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Paul Bowen (Australia)  Oscar Nierstrasz (Switzerland)
Sjaak Brinkkemper (The Netherlands)  Andreas Oberweis (Germany)
Michael Brodie (USA)  Antoni Olive (Spain)
Christoph Bussler (USA)  Maria Orlowska (Australia)
Silvana Castano (Italy)  Maurizio Panti (Italy)
Jan Dietz (The Netherlands)  Mike Papazoglou (The Netherlands)
Johan Eder (Austria)  Jeff Parsons (Canada)
Marcel Franckson (France)  Oscar Pastor (Spain)
Mariagrazia Fugini (Italy)  Barbara Pernici (Italy)
Antonio Furtado (Brazil)  Sol Greenspan (USA)
Andreas Geppert (Switzerland)  Alan Hevner (USA)
Paolo Giorgini (Italy)  Juhani livari (Finland)
Martin Glinz (Switzerland)  Keith Jeffery (UK)
Sol Greenspan (USA)  Manfred Jeusfeld (The Netherlands)
Alan Hevner (USA)  Hermann Kaindl (Austria)
Juhani livari (Finland)  Hannu Kangassalo (Finland)
Sushil Jajodia (USA)  Gerti Koppel (Austria)
Keith Jeffery (UK)  Steven Kimbrough (USA)
Manfred Jeusfeld (The Netherlands)  Costas Kontogiannis (Canada)
Hermann Kaindl (Austria)  Manolis Koubarakis (Greece)
Johannes Keitel (Brazil)  Alberto Laender (Brazil)
Julio Leite (Brazil)  Maurizio Lenzerini (Italy)
Michel Leonard (Switzerland)  Michel Leonard (Switzerland)
Qing Li (China)  Min Li (China)
Marin Litou (Canada)  Peri Loucopoulos (UK)
Nancy R. Mead (USA)  Kalle Lytynen (Finland)
Nancy R. Mead (USA)  Neil Maiden (UK)
Nancy R. Mead (USA)  Sal March (USA)
Pati Martin (Canada)  Pat Martin (Canada)
Nancy R. Mead (USA)  Pat Martin (Canada)
Nancy R. Mead (USA)  Tony Wasserman (USA)
Nancy R. Mead (USA)  Roel Wieringa (The Netherlands)
Nancy R. Mead (USA)  Eric Yu (Canada)

Alain Pirotte (Belgium)  Dimitris Plexousakis (Greece)
Klaus Pohl (Germany)  T. Radhakrishnan (Canada)
Sudha Ram (USA)  William Robinson (USA)
Colette Rolland (France)  Michel Scholl (France)
Michael Schreff (Australia)  Timos Sellis (Greece)
Mike Shaw (USA)  Keng Siau (USA)
Jacob Slonim (Canada)  Arne Soelberg (Norway)
Veda Storey (USA)  Eleni Stroulia (Canada)
Alistair Sutcliffe (UK)  Mohan Tanniru (USA)
Bernhard Thalheim (Germany)  Constantino Thanos (Italy)
Aphrodite Tsalgatidou (Greece)  Yannis Vassiliou (Greece)
Yair Wand (Canada)  Benkt Wangler (Sweden)
Tony Wasserman (USA)  Christopher Welty (USA)
Roel Wieringa (The Netherlands)  Eric Yu (Canada)
Programme Highlights

The keynote speakers. CAiSE’02 welcomes three outstanding plenary speakers:

- Dr. Michael Brodie (Verizon, USA) on Grand Challenges in Information Technology
- Prof. Mathias Jarke (RWTH Aachen, Germany) on Metadata and Knowledge Management
- Dr. Christopher Welty (IBM Watson Research Center) on Ontologies

The technical papers. The main programme includes 42 high quality full papers, selected from 173 submissions and 24 short papers reporting on a full range of topics, including Web Applications, Web Services, Knowledge Management, Data Semantics, Ontologies, Data Integration, System Qualities, Requirements Issues, Workflows, and more.

The panel sessions aim to provide stimulating discussion of interesting issues related to web-based information systems:

- Managing Web Content
- Web Information Systems Engineering

The workshops on Monday and Tuesday provide a forum for groups of researchers and practitioners to meet for one or two days and to exchange opinions, ideas, and preliminary results on focused issues in an atmosphere that fosters interaction and problem solving. Six workshops are organized in conjunction with CAiSE’02

- Agent-Oriented Information Systems (AOIS’02)
- Data Integration over the Web (DIWeb’02)
- Web services, E-business and Semantic Web (WSeBT)
- Design and Management of Data Warehouses (DMDW’2002)
- Evaluation of Modeling Methods in Systems Analysis and Design (EMMSAD’02)
- Doctoral Consortium

The tutorials are on Monday. They provide the opportunity to gain new insights, knowledge, and skills. Two half-day tutorials are organized in conjunction with CAiSE’02

- The Application of Workflow Management Technology in Process-based B2B Integration (Christoph Bussler, Oracle Corporation)
CASE’02 at a Glance (Morning Sessions)

Monday 27 AM
- Registration
- Opening Session
- Paper Session 1: Developing Applications
- Paper Session 2: Knowledge Management
- Paper Session 3: AOIS’02
- Paper Session 4: EMMSAD’02
- Paper Session 5: DMDW’02
- Paper Session 6: WSeBT
- Keynote: Dr. Michael Brodie (Verizon, USA) - "The Grand Challenge in Information Technology and the Illusion of Validity"

Tuesday 28 AM
- Paper Session 7: System Qualities
- Paper Session 8: AOIS’02
- Paper Session 9: DIWeb’02
- Paper Session 10: WSeBT
- Paper Session 11: DMDW’02
- Paper Session 12: EMMSAD’02
- Keynote: Prof. Dr. Matthias Jarke (RWTH Aachen, Germany) - "Metadata and Cooperative Knowledge Management"

Wednesday 29 AM
- Paper Session 13: Integration Issues
- Paper Session 14: AOIS’02
- Paper Session 15: WSeBT
- Paper Session 16: DMDW’02
- Paper Session 17: EMMSAD’02
- Paper Session 18: Doctoral Consortium
- T2: Workflow/B2B Integration

Thursday 30 AM
- Paper Session 19: Deployment Issues
- Paper Session 20: AOIS’02
- Paper Session 21: DIWeb’02
- Paper Session 22: WSeBT
- Paper Session 23: DMDW’02
- Paper Session 24: EMMSAD’02
- T3: Web-Services

Friday 31 AM
- Paper Session 25: Deployment Issues
- Paper Session 26: AOIS’02
- Paper Session 27: DIWeb’02
- Paper Session 28: WSeBT
- Paper Session 29: DMDW’02
- Paper Session 30: EMMSAD’02
- T3: Web-Services

CASE’02 at a Glance (Afternoon Sessions)

Monday 27 PM
- Lunch
- WS 8: Doctoral Consortium
- WS 6: EMMSAD’02
- WS 4: WSeBT
- WS 3: DIWeb’02
- WS 1: AOIS’02
- T 2: Workflow/B2B Integration

Tuesday 28 PM
- WS 8: Doctoral Consortium
- WS 6: EMMSAD’02
- WS 4: WSeBT
- WS 3: DIWeb’02
- WS 1: AOIS’02
- T 2: Workflow/B2B Integration

Wednesday 29 PM
- WS 8: Doctoral Consortium
- WS 6: EMMSAD’02
- WS 4: WSeBT
- WS 3: DIWeb’02
- WS 1: AOIS’02
- T 2: Workflow/B2B Integration

Thursday 30 PM
- WS 8: Doctoral Consortium
- WS 6: EMMSAD’02
- WS 4: WSeBT
- WS 3: DIWeb’02
- WS 1: AOIS’02
- T 2: Workflow/B2B Integration

Friday 31 PM
- WS 8: Doctoral Consortium
- WS 6: EMMSAD’02
- WS 4: WSeBT
- WS 3: DIWeb’02
- WS 1: AOIS’02
- T 2: Workflow/B2B Integration

CONFERENCE DINNER
Monday 27 May

Workshops and Tutorials

8:00  Registration @ Mountbatten Court
9:00  Workshop WS1:

09:00  Workshop WS1:
10:30  Agent-Oriented Information Systems (AOIS'02)
       @ Stevenson

Workshop WS4 + 7:
Web Services, E-business and Semantic Web
Workshop (WSeBT)
Workshop WS5:
Design and Management of Data Warehouses (DMDW'02)
Workshop WS6:
Evaluation and Modeling Methods in Systems Analysis and Design (EMMSAD'02)
Workshop WS8:
Doctoral Consortium

Tutorial T2:
The Application of Workflow Management Technology in Process-based B2B Integration
C. Bussler, Oracle

10:30  Coffee break @ Scott
11:00  Workshop WS1 Continued @ Stevenson
11:00  Workshop WS4 + 7 Continued @ Carlyle
12:30  Workshop WS5 Continued @ Rosetti
       Workshop WS6 Continued @ Scott
       Workshop WS8 Continued @ Seymour

Tutorial T2 Continued @ Windsor

12:30  Lunch @ Monarchs
14:00  Workshop WS1 Continued @ Stevenson
14:00  Workshop WS4 + 7 Continued @ Carlyle
15:30  Workshop WS5 Continued @ Rosetti
       Workshop WS6 Continued @ Scott
       Workshop WS8 Continued @ Seymour

Tutorial T3
The Web-services phenomenon: Concepts, Technologies, Current Trends & Research Directions Michael Papazoglou, Tilburg Univ., The Netherlands
15:30  Coffee break @ Scott
16:00  Workshop WS1 Continued @ Stevenson
16:00  Workshop WS4 + 7 Continued @ Carlyle
17:30  Workshop WS5 Continued @ Rosetti
       Workshop WS6 Continued @ Scott
       Workshop WS8 Continued @ Seymour

Tutorial T3 Continued @ Windsor
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<tr>
<th>Time</th>
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<tr>
<td>08:00</td>
<td>Registration</td>
<td>Mountbatten Court</td>
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<td>09:00</td>
<td><strong>Workshop WS1:</strong> Agent-Oriented Information Systems (AOIS’02)</td>
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<td>10:30</td>
<td><strong>Workshop WS3:</strong> 2nd Workshop on Data Integration over the Web (DIWeb’02)</td>
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<td><strong>Workshop WS4 + 7:</strong> Web Services, E-business and Semantic Web</td>
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<td><strong>Workshop WS6:</strong> Evaluation and Modeling Methods in Systems Analysis and Design</td>
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<td><strong>Workshop WS8:</strong> Doctoral Consortium</td>
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<td>08:00</td>
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<td>08:30</td>
<td>Opening Session</td>
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<td>08:30</td>
<td>Welcome to CAiSE’02</td>
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<tr>
<td>09:00</td>
<td>Keynote K1</td>
<td>@ Mountbatten B</td>
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<td>Keynote K2</td>
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<td>10:30</td>
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<tr>
<td>11:00</td>
<td>Paper Session 1 - Developing Web Applications</td>
<td>@ Mountbatten B</td>
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<td>13:00</td>
<td>Paper Session 2 – Knowledge Management</td>
<td>@ Carlyle</td>
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<td>14:00</td>
<td>Paper Session 3 – Deployment Issues</td>
<td>@ Carlyle</td>
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<td>15:30</td>
<td>Paper Session 4 – Semantics of Information</td>
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<td>17:00</td>
<td>Paper Session 5 – Evolutionary Issues</td>
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<td>Paper Session 6 – Evolutionary Issues</td>
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<td>Paper Session 7 – Evolutionary Issues</td>
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<td>20:00</td>
<td>Paper Session 8 – Evolutionary Issues</td>
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Wednesday 29 May                                           Conference Day 1

Nick Papadopoulos, Dimitris Plexousakis
"The Role of Semantic Relevance in Dynamic User Community Management and the Formulation of Recommendations" (Greece)

15:30 Coffee break @ Mountbatten Lane
16:00

16:00 Panel P1 @ Mountbatten B
17:30 Chair: Mohan Tanniru
Managing Web Content
Panelists: Brian Vantaw
Tim Banfill
Michael Grieves

Thursday 30 May                                           Conference Day 2

08:00 Registration @ Mountbatten Court
09:00 Keynote K2 @ Mountbatten B
09:00 Chair: Carson Woo
Prof. Dr. Matthias Jarke, RWTH Aachen, Germany
"Metadata and Cooperative Knowledge Management"
10:30 Coffee break @ Mountbatten Lane
11:00 Paper Session 5 – System Qualities @ Carlyle
11:00 Howard F Lipson, Nancy R. Mead, Andrew P Moore
"Can We Ever Build Survivable Systems from COTS Components?" (USA)
12:30 Henry M. Kim, Mark S. Fox
"Towards a Data Model for Quality Management Web Services: an Ontology of Measurement for Enterprise Modeling" (Canada)
12:30 Moira Norrie, Alexis Palinginis
"A Modeling Approach to the Realization of Modular Information Spaces" (Switzerland)

Paper Session 6 – Integration Issues @ Mountbatten B
Chair: Antoni Olive
Andrea Cali, Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini
"Data Integration Under Integrity Constraints" (Italy)

Huaxin Zhang, Eleni Stroulia
"Babel: An XML-based Application Integration Framework" (Canada)
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<tr>
<td>12:30</td>
<td>Lunch @ Mountbatten A</td>
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<td>14:00</td>
<td>Paper Session 7 – Analysis and Adaptation @ Carlyle</td>
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<td>14:00</td>
<td>Chair: Dimitris Plexousakis</td>
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<td>14:30</td>
<td>M. Benerecetti, M. Panti, L. Spalazzi, S. Tacconi</td>
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<td>&quot;Verification of Payment Protocols via Multi-Agent Model Checking&quot;</td>
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<td>15:30</td>
<td>Gunter Gans, Gerhard Lakemeyer, Matthias Jarke, Thomas Vits</td>
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<td>&quot;SNet: A Modeling and Simulation Environment for Agent Networks Based</td>
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<td>on i* and CONGOLOG&quot; (Germany)</td>
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<td>15:30</td>
<td>Hye-Young Paik, Boualem Benatallah, Rachid Hamadi</td>
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<td>&quot;Usage-Centric Adaptation of Dynamic E-Catalogues&quot; (Australia)</td>
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<td>16:00</td>
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<td>16:00</td>
<td>Paper Session 9 – Requirements Issues @ Carlyle</td>
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<td>Chair: Pat Martin</td>
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<td>Andreas Leicher, Felix Bubl</td>
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<td>&quot;External Requirements Validation for Component-Based Systems&quot;</td>
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<td>Maria Carmen Leonardi, Julio Leite</td>
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<td>&quot;Using Business-Rules in EXtreme Requirements&quot;</td>
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<td>(Argentina, Brazil)</td>
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<td>Mira Kajko-Mattsson</td>
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<td>&quot;Evaluating CM3 : Problem Management&quot;</td>
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<td>19:30</td>
<td>Paper Session 10 – Schema Matching and Evolution @ Mountbatten B</td>
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<td>Chair: Alberto Mendelzon</td>
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<td>Jacob Berlin, Amihai Motro</td>
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<td>&quot;Database Schema Matching Using Machine Learning with Feature</td>
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<td>Selection&quot; (USA)</td>
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<td>Cristina Gomez, Antoni Olive</td>
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<td>&quot;Evolving Partitions in Conceptual Schemas in the UML&quot; (Spain)</td>
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<td>Peter McBrien, Alexandra Poulouvasilis (UK)</td>
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<td>&quot;Schema Evolution in Heterogeneous Database Architectures: A Schema</td>
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<td>Transformation Approach&quot;</td>
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<td>19:30</td>
<td>Conference Dinner @ Mountbatten A</td>
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Friday 31 May                            Conference Day 3

08:00  Registration  @ Mountbatten Court
09:00  Keynote K3  @ Mountbatten B
10:00  Chair: John Mylopoulos

Dr. Christopher Welty (IBM Watson Research Center, USA)
"Ontology-Driven Conceptual Modeling"

10:30  Coffee break  @ Mountbatten Lane
11:00

11:00  Paper Session 11 - Workflows  @ Mountbatten B
Chair: Mike Papazoglou

Ingrid Wetzel, Ralf Klischewski
"Serviceflow Beyond Workflow? Concepts and Architectures for Supporting Inter-Organizational Service Processes" (Germany)

Alfred Fent, Herbert Reiter, Burkhard Freitag
"Design for Change: Evolving Workflow Specifications in ULTRAflow" (Germany)

W. M. P. van der Aalst, A. Himschall, H. M. W. Verbeek
"An Alternative Way to Analyze Workflow Graphs" (The Netherlands)

Mengchi Liu
"A Logical Foundation for XML" (Canada)

Richard Vdovjak, Geert-Jan Houben
"Providing the Semantic Layer for WIS Design" (The Netherlands)

12:30  Lunch  @ Mountbatten A
14:00

14:00  Paper Session 13 – Understanding and Using Methods  @ Carlyle
Chair: Yair Wand

Eva Söderström, Birger Andersson, Paul Johannesson, Erik Perssons, Benkt Wagner
"Towards A Framework for Comparing Process Modelling Languages" (Sweden)

Naveen Prakash, M. P. S. Bhatia
"Generic Models for Engineering Methods of Diverse Domains" (UK, India)

Motoshi Saeki
"Role of Model Transformation in Method Engineering" (Japan)

15:30  Paper Session 14 – Modeling Objects and Relationships  @ Mountbatten B
Chair: Eric Yu

Mohamed Dahchour, Alain Pirotte, Esteban Zimanyi
"A Generic Role Model for Dynamic Objects" (Belgium)
Friday 31 May                                   Conference Day 3

Dolors Costal, Maria-Ribera Sancho, Ernest Teniente
"Understanding Redundancy in UML Models for Object-Oriented Analysis" (Spain)

Antoni Olive
"Representation of Generic Relationship Types in Conceptual Modeling" (Spain)

Coffee break @ Mountbatten Lane

16:00 Panel P2 @ Mountbatten B
17:30 Chair: M. Tamer Özsu
Web Information Systems Engineering
Panelists: John Mylopoulos
Maurizio Lenzerini
Mike Papazoglou
Carson Woo

17:30 Closing Session @ Mountbatten B

Tutorials


Christoph Bussler, Oracle Corporation

The tutorial enables the attendees to understand and characterize the field of B2B integration in general and the use of workflow management technology in B2B integration specifically to address the required process functionality for B2B integration. Furthermore, after the tutorial attendees will be able to appreciate the need for and the advantages of process-based B2B integration, to understand how workflow management technology can be used in B2B integration, to distinguish naive and sophisticated application of workflow management technology in B2B integration, to model process-based B2B integration scenarios and judge the quality of modeled integration to place workflow technology as fundamental component into an overall B2B integration architecture, to explain how components of B2B integration architectures interact with each other.
Web-services are modular, self-describing, self-contained applications that are accessible over the Internet and can run remotely on a service provider’s site. Web-services constitute a distributed computing infrastructure made up of many different systems trying to communicate over the Internet to virtually form a single logical system. Web-services are an effective means for linking loosely coupled systems together using a technology that does not bind to a particular component model, programming language or platform. The modularity and flexibility of Web-services make them ideal for (e-business) cross-application integration. They form the building blocks for creating distributed applications that can be published to and accessed over the Internet and corporate intranets. Web-services consist of a set of open Internet standards that allow developers to implement distributed applications — using different tools provided by many different vendors — to create corporate applications that join together software modules from systems in diverse organisational departments or from different enterprises. In this way enterprises can mix and match Web-services to perform transactions with minimal programming effort. The purpose of this tutorial is to provide a comprehensive introduction to the subject of Web services and present a sound framework for understating how Web services are deployed and used in business applications. In doing so we will overview the concepts, key technologies and current standards for Web service development and discuss possible research directions.

Tutorials

T 3: The Web-services phenomenon: Concepts, Technologies, Current Trends & Research Directions

Michael Papazoglou, Tilburg University, The Netherlands

Workshops

WS 1: Agent-Oriented Information Systems (AOIS’02)

Organizers: P. Giorgini, Y. Lespérance, G. Wagner, E. Yu
Website: http://www.aois.org

This bi-conference workshop aims to bring together researchers and practitioners from the Information Systems and Agents communities who will be shaping the future of information systems engineering.

WS 3: 2nd Workshop on Data Integration over the Web (DiWeb’02)

Organizers: Z. Bellahsene, Z. Lacroix
Website: http://www.lirmm.fr/~bella/diweb02

The aim of this workshop is to provide a forum for articles that bring the challenges in the design, maintenance and implementation of Web based Information Systems, and the opportunity for all involved to debate new issues and directions for research and development work in the future.

WS 4 + 7: Web Services, E-business and Semantic Web (WESeBT)

Organizers: M. Orlowska, C. Bussler, J. Yang, B. Pernici, S. McIlraith, R. Hull
Website: http://pcsiwa12.rett.polimi.it/~permici/WSeBT/

The goal of this workshop is to bring web services, e-business, and semantic web technological issues together for discussion and review. This includes new research results and developments in the context of web services and e-business as well as application of existing research results in this new fascinating area.

WS 5: Design and Management of Data Warehouses (DMDW’2002)

Organizers: J. Hammer, M. Jeusfeld, I. Song, M. Staudt, D. Theodoratos
Website: http://sunsite.informatik.rwth-aachen.de/Societies/DMDW/2002/

Data Warehousing embraces technology and industrial practice to systematically integrate data from multiple distributed data sources and to
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use that data in annotated and aggregated form to support business decision-making and enterprise management. Although many database techniques have been revisited or newly developed in the context of data warehouses, such as view maintenance and OLAP, little attention has been paid to the design and management of data warehouses to appropriately serve their purposes, i.e., to support the management of a given enterprise. This workshop is intended as a forum to fill this gap.


Organizers: T. Halpin, K. Siau, J. Krogstie
Website: http://www.ait.unl.edu/siau/conference/EMMSAD2002.htm

The objective of this workshop is to provide a forum for researchers and practitioners interested in modeling methods in systems analysis and design to meet, and exchange research ideas and results. It also provides researchers an opportunity to present their research papers and reports, and to take part in open discussions. The seventh in a highly successful series of workshops, EMMSAD-02 is jointly sponsored by CAiSE and the International Federation for Information Processing Working Group 8.1 (IFIP8.1).

WS 8: Doctoral Consortium

Organizers: A. Hinze, J. Kotlarsky
Website: http://www.inf.fu-berlin.de/~hinze/caise02_DC/

The Doctoral Consortium is a workshop for Ph.D. students at any stage in their thesis. The goal of the Doctoral Consortium is to help Ph.D. students with Ph.D. thesis by giving feedback on your own research work as well as to give some general advice on making the most of your research environment. You will be given the chance to present and discuss your thesis in the context of an international conference outside of your usual University atmosphere. The workshop lasts two days and about 10 - 15 Ph.D. students will have the possibility to participate. Prominent professors in the field of information systems will accompany the workshop.

Posters

Michel Adiba, Jose-Luis Zechinelli-Martini
"Building Spatio-Temporal Presentation Warehouses from Heterogeneous Multi-Media Web Servers" (France)

Jose Luis Arjona, R. Corchuelo, A. Ruiz, M. Toro
"A Practical Agent-Based Method to Extract Semantic Information from the Web" (Spain)

Christoph Bussler
"Business-to-Business Integration" (USA)

Zhiming Cai, Eric Yu
"Modelling Performance Requirements using a Goal and Scenario-Oriented Approach with GRL and UCM" (Canada)

Carlo Combi, Angelo Montanari
"Querying Data with Multiple Temporal Dimensions" (Italy)

Ruxandra Domenig, Klaus R. Dittrich
"Query Explorativeness for Integrated Search in Heterogeneous Data Sources" (Switzerland)

Ima M. R. Evangelista Filha, Altigran S. Silva, Alberto H. F. Laender, David W. Embley "Using Nested Tables for Representing and Querying Semistructured Web Data" (Brazil, USA)

Marcela Genero , Geert Poels, Mario Piattini
"Defining and Validating Measures for Conceptual Data Model Quality" (Spain, Belgium)

John Grundy, Wenjing Zou
"An Architecture for Building Multi-Device Thin-Client Web User Interfaces" (New Zealand)

Arne Harren, Heiko Tapken
"A Framework for Tool-Independent Modeling of Data Acquisition Processes for Data Warehousing" (Germany)
Posters

Cosmina Ivan, Vasile Dadarlat, Kalman Pusztai
"Managing Complexity of Designing Routing Protocols via a Middleware Approach" (Ireland, Romania)

Hyunchul Kang, JaeGuk Lim
"Deferred Incremental Refresh of XML Materialized Views" (Korea)

Susana Montero, Paloma Diaz, Ignacio Aedo
"Requirements for Hypermedia Development Methods: a Survey of Outstanding Methods" (Spain)

Luigi Pontieri, Domenico Ursino, Ester Zumpano
"An Approach for Synergically Carrying out Intensional and Extensional Integration" (Italy)

Arijit Sengupta, Mehmet Dalkilic
"DSQL - an SQL for Structured Documents" (USA)

Xiaomeng Su and Lars Ilebrekke
"A Comparative Study of Ontology Languages and Tools" (Norway)

Vijayan Sugumaran, Mohan Tanniru
"Life Cycle Based Approach for Knowledge Management: A Knowledge Organization Case Study" (USA)

Wenjun Sun, Kevin Lu
"Parallel Query Processing Algorithms for Semi-Structured Data" (UK)

Marco Torchiano, Giorgio Bruno
"Domain-Specific Instance Models in UML" (Norway, Italy)

Yannis Tzitzikas, Nicolas Spyatos, Panos Constantopoulos, Anastasia Analyti
"Extended Faceted Ontologies" (Greece, France)

Panos Vassiliadis, Alkis Simitis, Spiros Skiadopoulos
"On the Logical Modeling of ETL Processes" (Greece)

Minhong Wang, Huaiqing Wang
"Intelligent Agents Supported Flexible Workflow Monitoring System" (Hong Kong)

Kenny Qili Zhu, Andrew E. Santosa
"A Meeting Scheduling System Based on Open Constraint Programming" (Singapore)

Peter Bollen
"Modeling Constructs in Natural Language Modeling" (The Netherlands)