



CALL FOR PARTICIPATION

7th Workshop on Information Technologies and Systems (WITS'97)
Atlanta, Georgia, USA December 13-14, 1997
<http://isr.berkeley.edu/wits>

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The 7th Workshop on Information Technologies and Systems (WITS'97) will be held in Atlanta, Georgia during December 13-14, 1997, preceding the ICIS conference. The purpose of the workshop is to promote discussion and interaction among members of the Information Systems community with research interests in cutting-edge information technologies and systems. The theme of WITS'97 is the Role of the Internet and Web-based Systems in Networked Organizations.

WORKSHOP PROGRAM

DAY 1 - Saturday, December 13

8:00 - Registration (at the Workshop Desk)

8:30am-9am Continental Breakfast

**9am-9:15am Welcome, WITS'97 Co-Chairs
Arie Segev & Vijay Vaishnavi**

9:15am-10:15am keynote Speaker

Mr. C. Richard Crutchfield
**Senior Vice President and Chief Information
Officer, Equifax, Inc.**

10:15am-10:30am Refreshment Break

10:30pm-12:00pm Parallel Sessions

**Session 1A: Search and Retrieval Techniques for the
WWW (Chair: Steve Kimbrough, Univ of Penn, USA)**

- The Relationship Between Relevance and Reliability
in Internet-based Information and Retrieval Systems.
Daniel E. O'Leary, Univ of Southern California
- Relational Querying of Semi-structured Web Data
Rajshekhhar Sunderraman, Georgia State Univ
- Web Page Categorization and Feature Selection Using
Association and Principal Component Clustering

Jerome Moore, Eui-Hong (Sam) Han, Daniel Boley,
Maria Gini, Robert Gross, Kyle Hastings, George
Karypis, Vipin Kumar, & Bamshad Mobasher,

University of Minnesota, USA

**Session 1B: Database Issues (Chair: Carson Woo,
University of British Columbia, Canada)**

- Complexity and errors in SQL queries: Development
and Empirical Comparison of Complexity Measures

Faye Borthick, Georgia State University, USA; Paul
Bowen & Russell Diery, University of Queensland,
Australia

- Resolving Instance-level Relationship Conflicts in
Database Integration Ee-Peng

Lim & Roger H.L. Chiang, Nanyang Technological
University, Singapore

- A Comparative Study of Three Database Application
Development Environments

Ahmed Iftikhar & Fred Lochovsky, Hong Kong Univ of
Science & Technology

12:00pm-1:45pm Luncheon

**Best paper Award Presentation
Luncheon Speaker: TBA**

1:45pm-3:15pm Session 2 (Plenary Industry Session)
Digital Commerce
(Chair: Ravi Kalakota, Georgia State University, USA)

- Carolyn Nguyen, Bell Labs
- Alan Taetle, MindSpring
- Robert Taylor, Cambridge Technology Partners

3:15pm-3:45pm Refreshment Break
3:45pm-5:15pm Parallel Sessions

Session 3A: Panel - Are Existing Systems Analysis and Design Methods Obsolete for Web-based Applications?

- Ritu Agarwal, Florida State University, USA
- Roger H.L. Chiang, Nanyang Technological University, Singapore
- Keng Siau, University of Nebraska-Lincoln, USA
- Iris Vessey, Indiana University, USA

Session 3B: Poster Session

- Activity Based Security in Intranet and Internet workflows
Thomas A. Kindler, University of Stuttgart, Germany
- Supporting Organizational Learning Processes through Failure Management
Ralf Klamma & Matthias Jarke, RWTH Aachen , Germany
- Modeling Organizational Processes: Incentive Issues and a Specific Example
T.S. Raghu, H.R. Rao, & A. Chaudhury, University at Buffalo, USA
- Dynamic Versus Static Policies for Data Archival in Hierarchical Storage Management
Vijay S. Mookerjee, Univ of Washington, USA

5:15 END OF DAY 1'S PROGRAM

5:15pm - 6:15pm WITS '98 PC Meeting

7:00pm Workshop Dinner

DAY 2 - Sunday, December 14

7:30am - 08:30 WITS Steering Committee Meeting

8:30am-9am Registration and Continental Breakfast

9am-10:30am Parallel Sessions

Session 4A: Data Warehousing, Mining and OLAP
(Chair: Daniel E. O'Leary, Univ of Southern California, USA)

- On the Discovery of Unexpected Rules in Data-Mining Applications

Balaji Padmanabhan & Alexander Tuzhilin, New York University, USA

- A Conceptual Model and an algebra for On-Line Analytical Processing in Data Warehouses
Anindya Datta & Helen Thomas, University of Arizona, USA
- A Novel Approach for Smaller, Faster Data Warehouses
Anindya Datta & Igor Viguier, University of Arizona, USA

Session 4B: Collaboration & Coordination (Chair: Kenji Takahashi, NTT USA)

- Modeling Coordination in Software Construction Under Size and Learning Effects
Vijay S. Mookerjee & Robert Chiang, University of Washington, USA
- Collaborative Object Workspaces (COWS): Exploring the Integration of Collaboration Technology
Munir Mandviwalla & Shariq Khan, Temple University, USA
- Key Issues in the Design of an Asynchronous System to Support Meeting Preparation
Marcos R.S.Borges, Universidad Federal de Rio de Janeiro, Brazil; Jose A. Pino, Universidad de Chile, David A. Fuller, Pontificia Universidad Catolica de Chile, & Ana C. Salgado, Universidad Federal de Pernambuco

10:30am-10:45am Refreshment Break

10:45pm-12:15pm Parallel Sessions

Session 5A: WWW and Workflows Issues (Chair: Akhil Kumar, Univ of Colorado, USA)

- The Architecture of the USC Integrated Digital Archives
Cavit Aydin, Navid Haddadi, Doug Ierardi, Leta Hunt, Ta-Wei Li, University of Southern California, USA
- Workflow Management on the Internet
J. Leon Zhao, Hong Kong Univ of Science & Technology & Akhil Kumar, University of Colorado, USA
- The Web and Small Businesses: Interaction and Impacts
Amelia Baldwin, Florida International University, USA; Andrew Lymer, University of Birmingham & Roland Johnson, IBM plc, UK

Session 5B: System Design Methodologies (Chair: Roger H.L. Chiang, Nanyang Technological University, Singapore)

- ❑ Using Sequences of Use Cases and Activities in Object-oriented Analysis
E.B. Fernandez, Florida Atlantic University, & M. Anwar, Motorola, USA
- ❑ APSARA : A Web-based Tool to Automate System Design
Sandeep Puroo & Veda Storey, Georgia State University, USA
- ❑ Reconciling Top-Down and Bottom-Up Design Approaches in RMM
Tomás Isakowitz, University of Pennsylvania; Arnold Kamis & Marios, Koufaris, New York University, USA

12:15pm-2pm Luncheon

Luncheon Speaker: Arie Segev, University of California, Berkeley, USA

The WITS '97 Web Based Conference Systems - Lessons Learned

2:00pm-3:30pm Parallel Sessions

Session 6A: Multi-Media and Database Optimization (Chair: Sal March, Univ of Minnesota, USA)

- ❑ Effective Distribution of Multimedia Content in Intranets
Tae-Dong Han & Sandeep Puroo, Georgia State University, USA
- ❑ Scalable Video Browsing Techniques for Intranet Video Servers
Shahram Ghandeharizadeh, Roger Zimmermann, Seon Ho Kim, Weifeng Shi, & Jaber Al-Marri, University of Southern California, USA
- ❑ Optimizing Relational Queries by Materializing Natural Joins
Xun Cheng & Jianwen Su, University of California at Santa Barbara, USA

Session 6B: Poster Session

- ❑ Box Structures for Software Architecture Definition and Verification
Alan Hevner, University of South Florida & Richard Linger, Software Engineering Institute, USA
- ❑ The Impact of Introducing a Formal Enterprise Level Structured Methodology on Software Application Quality

Kay M. Nelson, Univ. of Kansas, & Mehdi Ghods, The Boeing Company, USA

- ❑ WebCity: A WWW-based Hypermedia Environment for Software Development
Wenyu Jiang, Gail E. Kaiser, Stephen E. Dossick & Jack J. Yang, Columbia University, USA
- ❑ A Shared Environment to Support Multiple Advanced Application Systems
Randal Peters, Peter Graham & Ken, Barker, University of Manitoba, Canada
- ❑ Optimal use of Standardized Application Software Packages in Distributed Systems - A Simulation Study Based on Communication and Automation Costs
Susanne Leist & Robert Winter, University of St. Gallen, Switzerland

3:30pm-4:00pm Refreshment Break

4:00pm-5:30pm Parallel Sessions

Session 7A: Panel - Web Data Management

- ❑ Joachim Hammer, Stanford University and University of Florida, USA
- ❑ Marian Nodine, Project Manager, InfoSleuth Project, MCC, USA
- ❑ George Mihaila, University of Toronto, CANADA
- ❑ Louiqa Raschid, University of Maryland, USA

Session 7B: Collaboration and Inference (Chair: Aris Ouksef, Univ of Illinois, USA)

- ❑ A Web-Based OO Platform for the Development of Didactic Multimedia Collaborative Applications
David A. Fuller, Luis A. Guerrero, & Jenny Zegarra, Pontificia Universidad Católica de Chile
- ❑ A Terminology Server for Quality-Driven Cooperative Terminology Work
Bettina von Buol & Stefanie KethersBettina, RWTH Aachen, Germany
- ❑ Generating Rules from Bayesian Belief Networks
Vijay Mookerjee, Michael Mannino & Robert Gilson, University of Washington, USA

5:30pm END OF WORKSHOP

WORKSHOP ORGNIZATION

WORKSHOP & PROGRAM CO-CHAIRS:

Arie Segev
University of California, Berkeley, USA

Vijay K. Vaishnavi
Georgia State University, USA

INDUSTRY LIAISON:

Sridhar Narashiman
Georgia Institute of Technology, USA

PROGRAM COMMITTEE:

Hemant Bhargava, NPGS, USA
Anitesh Barua , Univ of Texas, Austin, USA
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Paul Bowen, Univ of Queensland, Australia
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Wolfgang Koenig, Univ of Frankfurt, Germany
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Akhil Kumar , Univ of Colorado, USA
Sal March , Univ of Minnesota, USA
Sridhar Narashiman , Georgia Tech, USA
Sham Navathe , Georgia Tech, USA
Dan Oleary, USC, USA
Aris Ouksel, Univ of Illinois, USA
Gultekin Ozsoyoglu, Case Western Reserve
Univ, USA
Mike Papazouglo, Tilburg Univ, Netherland
Ajit Patankar, Anderson Consulting, USA

Hasan Pirkul , Univ of Texas, Dallas, USA
Sudha Ram , Univ of Arizona, USA
Louiqa Raschid, Univ of Maryland, USA
Sumit Sarkar, LSU, USA
Arun Sen, Texas A&M, USA
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