

第三届网络时代信息管理国际会议

The Third International Conference on
Web-Age Information Management

11-13 August 2002, Beijing, China



Organized by

Renmin University of China, China

Tsing Hua University, China

In cooperation with

Database Society of China Computer Federation

Sponsored by



国家自然科学基金委员会
NATIONAL NATURAL SCIENCE FOUNDATION OF CHINA



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Preface

With advances in the Internet and, in particular, various technologies around the World-Wide Web, the management and access to data bring many new challenges. As more and more information of diverse types becomes available on the Internet and Web, query and retrieval as well as the management of information over the Internet become more complex and extremely difficult. Novel approaches to develop and manage Internet and Web information systems and discover useful information are in high demand. In its third year, WAIM 2002 will continue to provide a forum for researchers, professionals, and industrial practitioners from around the world to share their rapidly evolving knowledge and to report on new advances in Web-based information systems, and to identify new issues and directions for research and development in the new era of evolving technologies.

Beijing is the capital of China. It has been a political, economic, and cultural center for the last few centuries. The city is an enormous treasure house of cultural and historical relics, stocked with various collections of palaces, temples, parks and above all, one of the Seven Wonders of the World, the Great Wall.

We wish the conference successful and productive and enjoy your stay in Beijing.

Program Committee Members

Paolo Atzeni	University “Roma Tre”, Italy
Sang Kyun Cha	Seoul National University, Korea
Edward Chang	University of California, Santa Barbara, USA
Guozhu Dong	Wright State University, USA
Xiaoyong Du	Renmin University of China, China
Amr El Abbadi	University of California, Santa Barbara, USA
Ming Fan	Zhengzhou University, China
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Qing Li	City University of Hong Kong, China
Tianzhu Li	Hebei University, China
Xiaoming Li	Peking University, China
Zhanhuai Li	Northwestern Polytechnical University, China
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Weiyi Liu	Yunnan University, China
Weiyang Ma	Microsoft Research Asia, China
Xiaoyang Mao	Yamanashi University, Japan
Alberto Mendelzon	University of Toronto, Canada
Zhiyong Peng	Wuhan University, China
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Guoren Wang	Northeastern University, China
Jason T.L. Wang	New Jersey Institute of Technology, USA
Ke Wang	Simon Fraser University, Canada
Min Wang	IBM T. J. Watson, USA
Xiong Wang	California State University at Fullerton, USA
Gerhard Weikum	University of Saarland, Germany
Zhaohui Wu	Zhejiang University, China
Dongqing Yang	Peking University, China
Jian Yang	Tilburg University, Netherlands
Clement Yu	University of Illinois at Chicago, USA

Program at a Glance

Aug. 11, 2002 Sunday	Aug. 12, 2002 Monday		Aug. 13, 2002 Tuesday	
	8:30-9:00 Conference Opening		8:30-10:00 Keynote Address	
	9:00-10:30 Keynote Address <i>ToX, the Toronto XML Server</i> Dr. Alberto Mendelzon		<i>Have it your way: Personalization of Network-hosted Services</i> Dr. Richard Hull	
	10:30-11:00 Coffee/Tea Break		10:00-10:30 Coffee/Tea Break	
10:00-11:30 Tutorial 1 <i>Querying and Mining Data Streams: You Only Get One Look</i>	11:00-12:30 Session 1A <i>XML</i>	11:00-12:30 Session 1B <i>Spatio-Temporal Databases</i>	10:30-12:15 Session 3A <i>Workflows & E-services</i>	10:30-12:15 Session 3B <i>Bioinformatics, Views, & OLAP</i>
11:30-13:00 Lunch	12:30-14:00 Lunch		12:15-14:00 Lunch	
13:00-14:30 Tutorial 2 <i>Web-services & E-business Technologies</i>	14:00-16:00 Session 2A <i>Data Mining & Learning</i>	14:00-16:00 Session 2B <i>XML & Web</i>	14:00-15:30 Session 4A <i>Clustering & High Dim. Data</i>	14:00-15:30 Session 4B <i>Web Search</i>
14:30-15:00 Coffee/Tea Break	16:00-16:30 Coffee/Tea Break		15:30-16:00 Coffee/Tea Break	
15:00-16:30 Tutorial 2 (continued)	16:30-18:00 Panel <i>Research Issues in Bioinformatics</i>	16:30-18:00 Demo Session (repeat)	16:00-17:30 Session 5A <i>Optimization & Updates</i>	16:00-17:30 Session 5B <i>Transactions & Multimedia</i>
16:30-17:30 Demo Session				
18:30 Conference reception	19:00 Conference Banquet			

- Note: Each regular paper is allocated with 30 minutes presentation time, while each short paper is allocated with 15 minutes presentation time.
- Note: August 10th, please register in the lobby of Main Building, Friendship Hotel.
August 11th – 13th, please register in the lobby of Meeting Hall, Friendship Hotel.

Conference Program

Sunday, August 11

10:00am–11:30am

Tutorial 1 (Meeting Hall : 104 – 105)

Querying and Mining Data Streams: You Only Get One Look

Chair: Guozhu Dong (Wright State University, USA)

Instructors: Minos Garofalakis (Bell Labs, USA), Johannes Gehrke (Cornell University, USA), and Rajeev Rastogi (Bell Labs, USA)

12:30pm–1:00pm Lunch (**Ju Fu Yuan Restaurant in Friendship Palace**)

1:00pm–2:30pm

Tutorial 2 (Meeting Hall : 104 – 105)

Web-services and E-business Technologies

Chair: Xiaoyang Mao (Yamanashi University, Japan)

Instructor: Jian Yang (Tilburg University, Netherlands)

2:30pm–3:00pm

Coffee/tea break

3:00pm–4:30pm

Tutorial 2 (Meeting Hall : 104 – 105) (continued)

4:30pm–5:30pm

Demo Session (Meeting Hall : 104 – 105)

Chair: Chen Li (University of California at Irvine, USA)

“Web-linkage Viewer: Finding Graph Structures in the Web,”

Yasuhito Asano, Hiroshi Imai, Masashi Toyoda, and Masaru Kitsuregawa
(University of Tokyo, Japan)

“GDWFMS: A Workflow System for Submitting Graphs and Documents,”

JinShui Chen and Yan Tu (HoHai University, China)

6:30pm (**Multifunctional Hall of Main Building**)

Conference reception

Conference Program

Monday, August 12

8:30am–9:00am

Conference Opening (Main Meeting Hall)

9:00am–10:30am

Keynote Address: (Main Meeting Hall)

ToX, the Toronto XML Server

Speaker: Alberto Mendelzon (University of Toronto, Canada)

Chair: Xiaofeng Meng (Renmin University of China, China)

10:30am–11:00am Coffee/tea break

11:00am–12:30pm

Session 1A: (Main Meeting Hall)

XML

Chair: Alberto Mendelzon (University of Toronto, Canada)

“Efficient Supporting XML Query and Keyword Search in Relational Database Systems,”

Regular paper,

Changxuan Wan (Huazhong University of Science & Technology and Jiangxi University of Finance & Economics, China) and Yunsheng Liu (Huazhong University of Science & Technology, China)

“Performance Evaluation of a DOM-based XML Database: Storage, Indexing and Query Optimization,”

Regular paper,

Jianhua Lv, Guoren Wang (Northeastern University, China), Jeffrey X. Yu (Chinese University of Hong Kong, China), Ge Yu (Northeastern University, China), Hongjun Lu (Hong Kong University of Science and Technology, China), and Bing Sun (Northeastern University, China)

“Structural-Map: A New Index for Efficient XML Path Expression Processing,”

Regular paper,

Shihui Zheng, Aoying Zhou (Fudan University, China), Jeffrey Xu Yu (Chinese University of Hong Kong, China), Long Zhang and Han Tao (Fudan University, China)

Session 1B: (Meeting Hall : 104 – 105)

Spatio-Temporal Databases

Chair: Lizhu Zhou (Tsinghua University, China)

“An Advanced Discrete Model for Uncertain Spatial Data,”

Regular paper,

Erlend Tossebro and Mads Nygard (Norwegian University of Science and Technology)

“A Spatio-temporal Representation Scheme for Content- and Semantic-based Video Retrieval on Moving Objects’ Trajectories,”

Regular paper,

Choon-Bo Shim and Jae-Woo Chang (Chonbuk National University, South Korea)

“Efficient Access Technique Using Levelized Data in Web-Based GIS,”

Short paper,

Joon-Hee Kwon and Yong-Ik Yoon (Sookmyung Women's University, Korea)

“Using PR-tree and HPIR to Manage Coherence of Semantic Cache for Location Dependent Data in Mobile Database,”

Short paper,

Shi Shengfei, Li Jianzhong, and Wang Chaokun (Harbin Institute of Technology, China)

12:30pm–2:00pm Lunch (**Ju Fu Yuan Restaurant in Friendship Palace**)

2:00pm–4:00pm

Session 2A: (Main Meeting Hall)

Mining and Learning

Chair: Xuemin Lin (University of New South Wales, Australia)

“Towards Efficient Re-mining of Frequent Patterns upon Threshold Changes,”

Regular paper,

Xiu-li Ma, Shi-wei Tang, Dong-qing Yang, and Xiao-ping Du (Peking University, China)

“Mining Predicate Association Rule by Gene Expression Programming,”

Regular paper,

Zuo Jie, Tang Changjie, and Zhang Tianqing(Sichuan University, China)

“Learning with Concept Hierarchies in Probabilistic Relational Data Mining,”

Regular paper,

Jianzhong Chen, Mary Shapcott, Sally McClean, and Kenny Adamson
(University of Ulster at Jordanstown, UK)

“An Empirical Study of Learning-based Web Search,”

Short paper,

Aoying Zhou, Fang Xiong, and Weining Qian (Fudan University, China)

“Outlier Detection Integrating Semantic Knowledge,”

Short paper,

Zengyou He, Shengchun Deng, and Xiaofei Xu (Harbin Institute of Technology, China)

Session 2B: (Meeting Hall : 104 – 105)

XML and Web

Chair: Chen Li (University of California at Irvine, USA)

“Extracting Information from Semistructured Data,”

Regular paper,

Liping Ma, John Shepherd (University of New South Wales, Australia), and Yanchun Zhang
(University of Tasmania, Australia)

“Maintaining Consistency of Integrated XML Trees,”

Regular paper,

Wilfred Ng (Hong Kong University of Science & Technology, China)

“Extract Frequent Pattern from Simple Graph Data,”

Regular paper,

Qingqing Yuan, Yubo Lou, Haofeng Zhou, Wei Wang, and Baile Shi (Fudan University, China)

“XML-based Data Rendering Engine for Content Management System,”

Short paper,

Peng Xu, Wenjun Yang, and Kehong Wang (Tsinghua University, China)

“Text Distinguishers Used in an Interactive Meta Search Engine,”

Short paper,

Kang Chen, Weimin Zheng (Tsinghua University, China), Xiaotie Deng, Haodi Feng, and
Shanfeng Zhu (City University of Hong Kong, China)

4:00pm–4:30pm Coffee/tea break

4:30pm–6:00pm

Panel: (Meeting Hall :104 - 105)

Research Issues in Bioinformatics

Chair: Guozhu Dong (Wright State University, USA)

Panelists:

Hongjun Lu (Hong Kong University of Science and Technology, China),

Xiong Wang (California State University at Fullerton, USA),

Limsoon Wong (National University of Singapore, Singapore),

Masatoshi Yoshikawa (Nagoya University, Japan), and

Jeffrey Yu (Chinese University of Hong Kong, China)

Demo Session (Main Meeting Hall) (repeat)

6:30pm

Departure from the hotel lobby , go to HuiZhen Restaurant by bus

7:00pm Conference banquet (at HuiZhen Restaurant)

Conference Program

Tuesday, August 13

8:30am–10:00am

Keynote Address: (Main Meeting Hall)

Have it your way: Personalization of Network-hosted Services

Speaker: Richard Hull (Bell Labs, USA)

Chair: Jianwen Su (University of California at Santa Barbara, USA)

10:00am–10:30am Coffee/tea break

10:30am–12:15pm

Session 3A: (Main Meeting Hall)

Workflows and E-services

Chair: Jian Yang (Tilburg University, Netherlands)

“Teamwork Oriented Flexible Workflow Management System,”

Regular paper,

Jian Cao, Shensheng Zhang, and Xiaoguang Zhang (Shanghai Jiaotong University, China)

“EROICA: A Rule-based Approach to Organizational Policy Management in Workflow Systems,”

Regular paper,

Akhil Kumar (University of Colorado at Boulder, USA) and J. Leon Zhao (University of Arizona, USA)

“The ADMON-Time Workflow Client: Why Do We Need The Third Type of Workflow Client Designated for Administration and Monitoring Services?”

Regular paper,

Kwang-Hoon Kim (Kyonggi University, Korea) and In-Soo Kim (Electronics & Telecommunications Research Institute, Korea)

“Progressive Content Delivery for Mobile E-Services,”

Short paper,

Matthias Wagner (Future Networking Lab, DoCoMo Euro-Labs, Germany), Werner Kieβling, and Wolf-Tilo Balke (University of Augsburg, Germany)

Session 3B: (Meeting Hall :104 – 105)

Bioinformatics, Views, and OLAP

Chair: Xiong Wang (California State University at Fullerton, USA)

“GeneAround: A Browsing System for Gene Annotation Using XML Technologies,”

Regular paper,

Junko Tanoue, Noboru Matoba, Masatoshi Yoshikawa, and Shunsuke Uemura (Nara Institute of Science & Technology, Japan)

“What Difference Heuristics Make: Maintenance-Cost View-Selection Revisited,”

Regular paper,

Chi-Hon Choi, Jeffrey Xu Yu, and Gang Gou (Chinese University of Hong Kong, China)

“Representing Conceptual Multidimensional Properties using the Common Warehouse Metamodel (CWM),”

Regular paper,

Enrique Medina and Juan Trujillo (Universidad de Alicante, Spain)

“OLAP Query Processing Algorithm Based on Relational Storage,”

Short paper,

Jianhua Feng, Li Chao, Xudong Jiang, and Lizhu Zhou (Tsinghua University, China)

12:15pm–2:00pm Lunch (**Ju Fu Yuan Restaurant in Friendship Palace**)

2:00pm–3:30pm

Session 4A: (Meeting Hall :101 – 102)

Clustering and High Dimensional Data

Chair: Changjie Tang (Sichuan University, China)

“Querying and Clustering Very Large Data Sets Using Dynamic Bucketing Approach,”

Regular paper,

Lixin Fu (University of North Carolina at Greensboro, USA)

“CBCM: A Cell-based Clustering Method for Data Mining Applications,”

Regular paper,

Jae-Woo Chang (Chonbuk National University, South Korea)

“C²VA: Trim High Dimensional Indexes,”

Regular paper,

Hanxiong Chen, Jiyuan An, Kazutaka Furuse, and Nobuo Ohbo (University of Tsukuba, Japan)

Session 4B: (Meeting Hall : 104 – 105)

Web Search

Chair: Dongqing Yang (Beijing University, China)

“Topic Exploration and Distillation for Web Search by a Similarity-based Analysis,”

Regular paper,

Xiaoyu Wang, Zhiguo Lu, and Aoying Zhou (Fudan University, China)

“Efficient and Simple Encodings for the Web Graph,”

Regular paper,

Jean-Loup Guillaume (Universite Paris 7, France), Matthieu Latapy (Universite Paris 7 & INRIA Rocquencourt, France), and Laurent Viennot (INRIA Rocquencourt, France)

“Object-Extraction-based Hidden Web Information Retrieval,”

Short paper,

Song Hui, Zhang Ling, Ye Yunming, and Ma Fanyuan (Shanghai Jiaotong University, China)

“An Improved Usage-Based Ranking,”

Short paper,

Chen Ding, Chi-Hung Chi (National University of Singapore, Singapore)
and Tiejian Luo (Chinese Academy of Sciences, China)

3:30pm–4:00pm Coffee/tea break

4:00pm–5:30pm

Session 5A: (Meeting Hall : 101 – 102)

Optimization and Updates

Chair: Qiang Zhu (University of Michigan, USA)

“On Linear-Spline Based Histograms,”

Regular paper,

Qing Zhang and Xuemin Lin (University of New South Wales, Australia)

“A General and Efficient Approach for Solving Nearest Neighbor Problem in the Vague Query System,”

Regular paper,

DANG Tran Khanh, KUNG Josef, and WAGNER Roland
(Johannes Kepler University of Linz, Austria)

“A Client-Based Web-Cache Management System,”

Short paper,

Kelvin Lau and Yiu-Kai Ng (Brigham Young University, USA)

“Immediate and Partial Validation Mechanism for the Conflict Resolution of Update Operations in XML Databases,”

Short paper,

Sang-Kyun Kim (Chungnam National University, Korea), Myungcheol Lee (Electronics and Telecommunications Research Institute, Korea), and Kyu-Chul Lee (Chungnam National University, Korea)

Session 5B: (Meeting Hall : 104 – 105)

Transactions and Multimedia

Chair: Junyi Shen (Xi'an Jiaotong University, China)

“Relaxed Atomic Commit for Real-Time Transactions in Mobile Computing Environment,”

Regular paper,

YunSheng Liu, GuoQiong Liao, GuoHui Li, and JiaLi Xia
(Huazhong University of Science & Technology, China)

“Real-time Facial Patterns Mining and Emotion Tracking,”

Regular paper,

Zhenggui Xiang (Tsinghua University, China), Tianxiang Yao (Zhejiang University, China),
Jiang Li and Keman Yu (Microsoft Research Asia, China)

“Data Reduction and Noise Filtering for Predicting Times Series,”

Short paper,

Gongde Guo, Hui Wang, and David Bell (University of Ulster, UK)

“Exploiting the Intrinsic Irreversibility of Adaptive Technologies to Enhance the Security of Digital Watermarking,”

Short paper,

Xianfeng Zhao, Weinong Wang, and Kefei Chen (Shanghai Jiaotong University, China).

Tutorials

Tutorial 1: *Querying and Mining Data Streams: You Only Get One Look*

Abstract: Traditional Database Management Systems (DBMS) software is built on the concept of persistent data sets, that are stored reliably in stable storage and queried/updated several times throughout their lifetime. For several emerging application domains, however, data arrives and needs to be processed on a continuous (24x7) basis, without the benefit of several passes over a static, persistent data image. Such continuous data streams arise naturally, for example, in the network installations of large Telecom and Internet service providers where detailed usage information (Call-Detail-Records (CDRs), SNMP/RMON packet-flow data, etc.) from different parts of the underlying network needs to be continuously collected and analyzed for interesting trends. As a result, recent years have witnessed an increasing interest in designing data-processing algorithms that work over continuous data streams, i.e., algorithms that provide results to user queries while looking at the relevant data items only once and in a fixed order (determined by the stream-arrival pattern).

This tutorial will provide a comprehensive and, at the same time, clear and meaningful overview of the key research results surrounding data stream processing at this point in time. In addition to the systematic coverage of the most recent research results in the area, our discussion will focus on:

- One-pass algorithms for constructing the most popular types of data synopses over streams (namely, random samples, histograms, sketches, and wavelets).
- Use of the on-line data summaries for processing complex queries.
- An overview of advanced techniques and promising directions for future research.

Instructors: Minos Garofalakis (Bell Labs, USA), Johannes Gehrke (Cornell University, USA), and Rajeev Rastogi (Bell Labs, USA)

Minos Garofalakis is a Member of Technical Staff at the Information Sciences Research Center of Bell Laboratories, Lucent Technologies. He joined Bell Labs in 1998, after completing a Ph.D. in Computer Science at the University of Wisconsin-Madison. His current research interests lie in the areas of data reduction and mining, data streaming, approximate query processing, network management, and XML databases.

Johannes Gehrke is an Assistant Professor in the Department of Computer Science at Cornell University. He joined Cornell after completing his Ph.D. at the University of Wisconsin-Madison in 1999. Johannes' research interests are in the area of data mining, database systems, and ubiquitous computing.

Rajeev Rastogi is the Director of the Internet Management Research Department at Bell Laboratories, Lucent Technologies. He joined Bell Labs in 1993 after receiving a Ph.D. degree in Computer Science from the University of Texas, Austin. His research interests include network management, database systems and knowledge discovery.

Tutorial 2: *Web-services and E-business Technologies*

Abstract: The Internet-based economy is shifting gears from the hype of portals and Web site traffic to the real world of complex electronic transactions being enacted in real time, mostly behind the scenes. We are about to embark on a new paradigm of web computing: the web-services. Web-services have emerged as the next generation of web-based technology for exchanging information over the Internet. Web-services are modular, self-describing, self-contained applications that are accessible over the Internet and can run remotely on the service provider's site. They enable developers to construct web-based applications using any platform and programming language that is required. 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. They form the building blocks for creating distributed applications that can be published to and accessed over the Internet and corporate intranets.

Combined with recent developments in the area of distributed systems, workflows, protocols and languages, collectively referred to as cross-enterprise computing, web-services can provide the automated support needed for e-Business integration both at the data and business logic level. They also provide a sound support framework for developing complex business transaction sequences.

The purpose of this tutorial is to provide a comprehensive and systematic coverage and treatment of the concepts and issues in web-service and e-business. More specifically, it aims to present a solid foundation for understating what web-services are, how they are designed, deployed and used in business transactions, as well as key technologies and standards for web-service support and development.

This tutorial takes a unified view of different aspects and developments in the area of e-business and cross-enterprise computing and examines them in the light of web-service technologies. It explains how web-services standards and technology can be used to develop web-based applications and solutions in the context of e-business. Matching business examples and issues with appropriate enabling technologies, the book provides an accessible blend of these two inter-related disciplines with clarity and depth. The tutorial reports on recent developments and material that can only be found scattered in literature.

Instructor: Jian Yang (Tilburg University, Netherlands)

Dr. Jian Yang (jian@kub.nl) holds a faculty position at the Infolab at the Univ. of Tilburg in the Netherlands. Before she joined Infolab, she worked as a senior research scientist at the Division of Mathematical and Information Science, CSIRO (1998-2000), and as a lecturer (assistant professor) at Department of Computer Science, University College, University of New South Wales (1993-1998), Australia.

Dr. Yang has published papers in the international journals and conferences such as IEEE transactions, Data & Knowledge Engineering, CACM, VLDB, ICDCS, CAiSE, CoopIS, CIKM, etc.

She has served as program committee member in various international conferences such as: ICDE, CAiSE, ER, CoopIS, RIDE, etc.

In addition to web-services and (cross-) enterprise computing, her area of interest covers distributed systems, cooperative information systems and databases, component-system technologies, semantic interoperability and digital libraries.

Keynote Address

Keynote Address: *ToX, the Toronto XML Server*

Abstract: The Toronto XML Server is a repository manager for XML data and metadata. Users register documents that ToX may store in one of several different back-ends, including the file system, an ODBC-compliant relational database, or ToXin, our own XML indexing scheme. XQuery core queries can be applied to a document or to a collection of documents, possibly across heterogeneous back-ends. We will describe the architecture of the system and the implementation of the main components. We will present a pilot application, currently under development, to support an experiment in evidence-based medicine at a local hospital by serving XML to a front end running on handheld devices.

Speaker: Alberto Mendelzon (University of Toronto, Canada)

Alberto Mendelzon is now Professor of Computer Science and member of the Computer Systems Research Group. Alberto has chaired or co-chaired the program committees of the 1991 ACM Symposium on Principles of Database Systems, the 1992 International Conference on Very Large Databases, 1995 International Conference on Deductive and Object-Oriented Databases, 1998 International Workshop on the Web and Databases, 1998 IBM CASCON Conference, 1999 International Workshop on Database Programming Languages, and 1999 International Conference on the World Wide Web, and was area Vice-Chair for semistructured databases for the 2001 International Conference on Data Engineering. He is the Information Director for the ACM Special Interest Group on Management of Data and a member of its Executive Board, as well as a member of the Executive of the ACM Symposium on Principles on Database Systems. He is an Associate Editor of the ACM transactions on Database Systems and the International Journal on Very Large Data Bases, and is on the Editorial Board of the International Journal on Digital Libraries and the World Wide Web Journal. Alberto's research interests are in query languages, Web-based information systems, information integration, and data warehousing. He has published over 90 journal and conference papers in these and related areas. He has been a consultant for IBM Canada, Bell-Northern Research, the Canadian Imperial Bank of Commerce, the United Nations Development Programme, and Revenue Canada Taxation, among others.

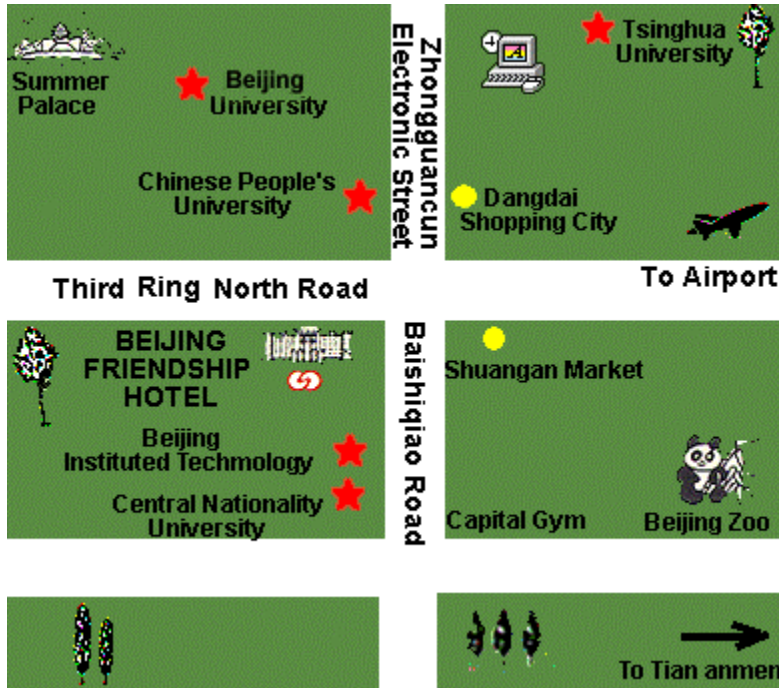
Keynote Address: *Have it your way: Personalization of Network-hosted Services*

Abstract: This talk describes recent trends in network-hosted services, with an emphasis on services provided over wireless, and including both web and voice capabilities. Technologies such as VoiceXML and the emerging 3GPP and Parlay standards enable substantial richness and complexity of these services. In order to take full advantage of these services, both private and corporate users will increasingly need to personalize their usage of them. Support for this personalization will involve advances in data integration technology for profile management, and advances in policy management technology for supporting user preferences against a distributed network of services. We survey how techniques from XML, federated databases, rules-based systems and description logics might be applied to support such personalization.

Speaker: Richard Hull (Bell Labs, USA)

Richard Hull is Director of Network Data and Services Research at Bell Laboratories, a division of Lucent Technologies. Hull has broad research interests in the areas of data and information management. His current work is focused on policy management, e-services, workflow, and data sharing. Hull is co-author of the book "Foundations of Databases" (Addison-Wesley), and has published over 75 journal and conference articles. Before joining Bell Labs he served on the faculty of Computer Science at the University of Southern California, was a frequent visitor to the Verso Group at INRIA, and was supported in part by grants from NSF, DARPA, AT&T, and U S WEST.

Friendship Hotel Map





注：此图片暂时为低精度，待到打印时会提高精度，会更清晰一些。

Itineraries of China Tour

Xi'an Three Days Tour

Schedule:

- D01 Beijing/Xi'an (L.D.)
Fly to Xi'an, Greeted by the guide, visit the drum tower, bell tower.
Stay at Xi'an Jianguo Hotel or the same class one.
- D02 Xi'an (B.L.D.)
Visit the Terra Cotta Warriors and Horses, Ban Po Neolithic Village Museum, Huaqing Hot Spring.
Stay at Jianguo Hotel or the same class one
- D03 Xi'an (B.L.)
Visit the Big Wild Goose Pagoda, the medieval City Wall, and the Forest of Steles.
Fly to Beijing. Tour ends.

Price: \$600/PAX ~ one person only;
\$500/PAX ~ over two persons.

- Single Supplement : \$105/PAX

Cost includes :

1. The air ticket of Beijing/Xi'an/Beijing.
2. Air-conditioning coach
3. Accommodation : 4—star hotel, 3 nights.
4. Entrance fee
5. Meals: specified in the itinerary
6. English tour guide service
7. Domestic Insurance

Cost not includes:

1. The air construction fee

[Note]: \$70 /per night for extra stay(4*)

Guilin Four Days Tour

Schedule:

- D01 Beijing/Guilin(D)
Greeted by the guide upon arrival, Then transferred to the hotel.
Stay at Guilin Park Hotel (4*) or the same class one
- D02 Guilin(B.L.D.)
Visit the Reed Flute Cave, Elephant Trunk Hill, and the Folded Brocade Hill.
Stay at Guilin Park Hotel (4*) or the same class one.
- D03 Guilin (B.L.D)

Take a Lijiang River Cruise.

Stay at GuiLin Park Hotel (4*) or the same class one .

D04 GuiLin/HongKong(B.L.)

Visit the Seven-star Park ,the Glory of China’ s Civilization,The Flower Bridge .

PRICE: \$780/PAX ~ one person only;

\$650/PAX ~ over two persons;

● SINGLE SUPPLEMENT:\$73/PAX

Cost includes :

1. The Air ticket of Beijing/Guilin/Beijing
2. Air-conditioning coach
3. Accommodation :4-star hotel, 3 nights
4. Entrance fee
5. Meals: specified in the itinerary
6. English tour guide service
7. Domestic Insurance

Cost not includes:

1. The air construction fee .

[Note]: \$65/per night for extra stay

Beijing-Shanghai-Zhouzhuang-Suzhou-Hangzhou-Shanghai five Days Tour

Schedule:

D01 Beijing/Shanghai .

Visit the well-known Yuyuan Garden, Nanpu Suspended Bridge.

Stay at Shanghai Hotel(4*) or the same class one

D02 Zhouzhuang/Suzhou

one day tour at Zhouzhuang.Bus to Suzhou.

Stay at Suzhou Lidu Hotel(4*) or the same class one

D03 Suzhou/Hangzhou

Visit the Tiger Hill, on which stands a slanting tower; continue the visit to the Chilly Hill Temple and the Lingering Garden, then Bus to Hangzhou.

Stay at Hangzhou Holiday Hotel (4*)or the same class one

D04 Hangzhou

Visit the West Lake, islet-Three Pools Mirroring the Moon, take a look at Peak Flown from afar, the Tiger Spring, walk along the Su Dongpo Causeway, have a cup of longjing Tea at Longjing Tea Village.

Stay at Hangzhou Holiday Hotel (4*)or the same class one

D05 Shanghai

Travel to Shanghai . Visit the Bund, Oriental Pearl TV Tower, have a stroll around the People’ s Square and Nanjing Lu Pedestrian Mall.

PRICE: \$1050/PAX ~ one person only;

\$750/PAX ~ over two person;

● SINGLE SUPPLEMENT:\$150/PAX

Cost includes :

1. The air ticket of Beijing/Shanghai/Beijing
2. Accommodation: 4* hotel 5nights
3. Meals
4. Air-conditioning coach
5. Entrance fee
6. English Tour guide service
7. Domestic Insurance

Cost not includes:

1. Air construction fee

Tour in Beijing

One day tour (1)

Visit the Forbidden-City , the largest imperial palace in the world, then visit the gorgeous Temple of Heaven where the former emperors used to pray for good harvest.

PRICE: \$100/pax ~one person only

\$70/ pax ~ over two persons

Cost includes:

1. The air conditioning coach.
2. Entrance fee
3. English Tour guide service
4. Domestic Insurance

One day tour (2)

Visit the Summer Palace , the largest royal summer resort in China.

PRICE : \$80/pax ~ one person only

\$55/pax ~ over two persons

Cost includes:

1. The air conditioning coach.
2. Entrance fee
3. English Tour guide service
4. Domestic Insurance

One day tour (3)

Visit the Great Wall and Dingling Mausoleum , one of the emperors' tombs of Ming Dynasty.

PRICE : \$150/pax ~one person only

\$90/pax ~over two persons

Cost includes:

1. The air conditioning coach.
2. Entrance fee
3. English Tour guide service
4. Domestic Insurance

About Shanghai Spring International Travel Service

Shanghai Spring International Travel Service, founded in September 1981, is engaged in operating domestic, inbound and outbound tourism, focusing on promoting deluxe FIT business. It is a member of ICCA, among the first group admitted from the mainland of China. Shanghai Spring owns 500 tour guides good at English, French, German, Japanese, Spanish, Russian, Korean and Thai, as well as the local dialects like Han, Guang dong, South Fujian and Chao Zhou.

Authorised by the National Tourism Administration since 1994, Shanghai Spring has set up 39 odds branches in major cities nationwide, electrically linked through network. In addition, it has opened its subsidiary company in: Los Angeles, USA. Shanghai Spring is the leading in China who adopts the electronic travel market place and organizes on line the individual travellers from the different locations into groups. Up to now it has as many as 1100 agents on our nationwide distribution network. Besides, Shanghai Spring has approximate 20 businesses including Ticket Center, Convention & Exhibition Co., Corporate Travel, Realty, Advertising, Commercial & Trading, Decoration Co., Cleaning Co., as well as a Storage & Transportation Co.

Shanghai Spring has won the national champion in domestic tourism for eight consecutive years during 1994-2001 in terms of annual turnover. Its total annual revenue in 1999 was about 1,500,000,000 Yuan (RMB). Moreover, it has been commended by Shanghai Municipal Government as “Municipal Grade Model Unit” each year continually from 1989 to 2001. In the meantime, it was twice cited the "National Excellent Quality Control Entity" and awarded the honor of "The National Exemplary Window in the Travel Sector".