### SIGMOD/PODS 2003 Final Program

**San Diego, California**

**June 8-13, 2003**

<table>
<thead>
<tr>
<th>Sunday, June 8th</th>
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<tbody>
<tr>
<td>8:30-17:30</td>
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<tr>
<td>DEBS Workshop (Windsor)</td>
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<tr>
<td>PKC50 Workshop (Hampton)</td>
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<tr>
<td>MPDS Workshop (Sheffield)</td>
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<tr>
<td>19:30-21:30</td>
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<tr>
<td>SIGMOD/PODS Welcoming Reception (Garden Salon 1)</td>
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<thead>
<tr>
<th>Monday, June 9th</th>
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<tbody>
<tr>
<td>8:00-8:45</td>
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<tr>
<td>Continental Breakfast (Atlas Foyer)</td>
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<tr>
<td>8:45-10:00</td>
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<tr>
<td>PODS Session 1: Invited Talk (Hampton &amp; Sheffield) Chair: Tova Milo</td>
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<tr>
<td>E-services: A Look Behind the Curtain, <em>Rick Hull</em></td>
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<td>10:00-10:15</td>
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<tr>
<td>Morning Coffee Break (Atlas Foyer)</td>
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<td>10:15-11:15</td>
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<tr>
<td>PODS Session 2: Award Papers (Hampton &amp; Sheffield) Chair: Catriel Beeri</td>
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<tr>
<td>Best Paper: An Information-Theoretic Approach to Normal Forms for Relational and XML Data, <em>Marcelo Arenas, Leonid Libkin</em></td>
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<tr>
<td>Best Newcomer Paper: Algorithms for Data Migration with Cloning, <em>Samir Khuller, Yoo-Ah Kim, Yung-Chun (Justin) Wan</em></td>
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<th>Tuesday, June 10th</th>
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<tr>
<td>8:00-8:45</td>
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<tr>
<td>Continental Breakfast (Atlas Foyer)</td>
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<td>8:45-9:45</td>
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<tr>
<td>SIGMOD Keynote (Regency Ballroom) Chair: Alon Halevy</td>
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<tr>
<td>The Database Course Qua Poster Child For More Efficient Education, <em>Jeffrey D. Ullman</em> (Stanford University)</td>
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<td>9:45-10:15</td>
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<td>Morning Coffee Break (Atlas Foyer)</td>
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<td>10:15-11:15</td>
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<tr>
<td>PODS Session 5: Data Integration (Garden Salon 2) Chair: Foto Afrati</td>
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<tr>
<td>Computing Full Disjunctions, <em>Yaron Kanza, Yehoshua Sagiv</em></td>
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<tr>
<td>Data Exchange: Getting to the Core, <em>Ronald Fagin, Phokion G. Kolaitis, Lucian Popa</em></td>
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</tbody>
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**SIGMOD Research Session 1: XML and Text** (Windsor) Chair: Divesh Srivastava

- Querying Structured Text in an XML Database, *Shurug Al-Khalifa, Cong Yu, H. V. Jagadish*
- XRANK: Ranked Keyword Search over XML Documents, *Lin Guo, Feng Shao, Chavdar Botev, Jayavel Shanmugasundaram*

**SIGMOD Research Session 2: Stream Query Processing I** (Hampton) Chair: Minos Garofalakis

- Distributed Top-K Monitoring, *Brian Babcock, Chris Olston*
- Approximate Join Processing Over Data

**SIGMOD Research Session 3: OLAP** (Garden Salon 1) Chair: Latha Colby

- Answer Queries, *Rada Chirkova, Chen Li* The Impact of the Constant Complement Approach Towards View Updating, *Jens Lechtenboerger*
- View-Based Query Containment, *Diego Calvanese, Giuseppe De Giacomo, Maurizio Lenzerini, Moshe Y. Vardi*
- The View Selection Problem for XML Content Based Routing, *Ashish Kumar Gupta, Alon Y. Halevy, Dan Suciu*

**SIGMOD Demos: Group A** (Crescent)

- A System for Watermarking Relational Databases, *Rakesh Agrawal, Jerry Kiernan*
- Query by Humming - in Action with its Technology Revealed, *Yunyue Zhu, Dennis Shasha*
- PeerDB: Peering into Personal Databases, *Beng Chin Ooi, Kian-Lean Tan, Aoying Zhou, Chinhong Goh, Yingguang Li, Chu Yee Liu, Bo Ling, Wee Siong Ng, Yanfeng Shu, Xiaooyu Wang, Ming Zhang*
- GridDB: A Database Interface to the Grid, *David T. Liu, Michael J. Franklin*
- CMVF: A Novel Dimension Reduction Scheme for Efficient Indexing in A Large Image Database, *Jailie Shen, Anne H.H. Ng, John Shepherd, Du Q. Huynh, Quan Z. Sheng*
- PLASTIC: Reducing the Cost of Query Optimization through Query Clustering, *Vibhuti S. Sengar, Jayant R. Haritsa*

**Best Paper:** Spreadsheets in RDBMS for OLAP, *Abhinandan Das, Johannes Gehrke, Mirek Riedewald*

**SIGMOD Industrial Session 1: Web Services** (Sheffield) Chair: Surajit Chaudhuri

- The Future of Web Services - I, *Adam Bosworth (BEA Systems)*
- The Future of Web Services - II, *Felipe Cabrera (Microsoft)*

**SIGMOD Business Meeting** (Regency Ballroom)

**SIGMOD Demos: Group C**

- Computer Architecture and Technology: Some Thoughts on the Road Ahead, *Jeffrey D. Ullman, Jerry Kiernan, Alon Halevy, Michael J. Franklin*

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<thead>
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<th>Monday, June 10th</th>
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<tbody>
<tr>
<td>11:15-11:30</td>
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<tr>
<td>Break</td>
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<th>Tuesday, June 11th</th>
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<tr>
<td>11:30-12:30</td>
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<tr>
<td>FCRC Plenary (Grand Ballroom)</td>
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<td>12:30-14:00</td>
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<td>Lunch (Royal Palm Court)</td>
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<tr>
<td>14:00-15:30</td>
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<tr>
<td>PODS Session 3: Invited Tutorial (Hampton &amp; Sheffield) Chair: Surajit Chaudhuri</td>
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<tr>
<td>Privacy in Data Systems, <em>Rakesh Agrawal</em>*</td>
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<tr>
<td>15:30-16:00</td>
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<tr>
<td>Afternoon Coffee Break (Atlas Foyer)</td>
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<td>16:00-18:00</td>
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<tr>
<td>PODS Session 4: Views (Hampton &amp; Sheffield) Chair: Marie-Christine Rousset</td>
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<tr>
<td>Materializing Views with Minimal Size to...</td>
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Michael Flynn (Stanford University)

12:30-14:00
Lunch (Royal Palm Court)

14:00-15:30
PODS Session 6: Optimization
(Garden Salon 2)
Chair: Victor Vianu

Soft Stratification for Magic Set Based Query Evaluation in Deductive Databases, Andreas Behrend

Query Containment and Rewriting Using Views for Regular Path Queries under Constraints, Goastra Grahe, Alex Thomo

Concise Descriptions of Subsets of Structured Sets, Alberto O. Mendelzon, Ken Q. Pu

On Producing Join Results Early, Jens-Peter Dittrich, Bernhard Seeger, David Scot Taylor, Peter Widmayer

SIGMOD Research Session 4: Data Security and Protection (Hampton)
Chair: Sharad Mehrotra

Winnowing: Local Algorithms for Document Fingerprinting, Saul Schleimer, Daniel Wilkerson, Alex Aiken

Information Sharing Across Private Databases, Rakesh Agrawal, Alexandre Evtimievski, Ramakrishnan Srikant

Rights Protection for Relational Data, Radoslav Atallah, Sunil Prabhakar

SIGMOD Research Session 5: XML Indexing and Compression (Windsor)
Chair: Hank Korth

ViST: A Dynamic Index Method for Querying XML Data by Tree Structures, Haixun Wang, Sanghyun Park, Wei Fan, Philip Yu

XPRESS: A Queriable Compression for XML Data, Jun-Ki Min, Myung-Jae Park, Chin-Wan Chung

D(k)-Index: An Adaptive Structural Summary for Graph-Structured Data, Qun Chen, Andrew Lim, Kian Win Ong

SIGMOD Industrial Session 2: Server Technology (Sheffield)
Chair: James Hamilton

Oracle RAC: Architecture and Performance, Angelo Pruscino (Oracle)

Oracle XML DB Repository, Viswanathan Krishnamurthy (Oracle)

Multi-Dimensional Clustering: A New Data Layout Scheme in DB2, Srimad Padmanabhan, Bishwaranjan Bhattacharjee, Timothy Malkemus, Leslie Cranston, Matthew Huras (IBM)

SIGMOD Panel 1: Querying Network

Databases (Garden Salon 1)

SIGMOD Demos: Group B (Crescent)

STREAM: The Stanford Stream Data Manager, Arvind Arasu, Brian Babcock, Shivnath Babu, Mayur Datar, Keith Ito, Justin Rosenstein, and Jennifer Widom


IrisNet: Internet-scale Resource-Intensive Sensor Services, Arni Deshpande, Suman Nath, Phillip B. Gibbons, Srinivasan Seshan

TelegraphCQ: Continuous Dataflow Processing, The TelegraphCQ Team

Transparent Mid-Tier Database Caching in SQL Server, Per-Åke Larson, Jonathan Goldstein

DBCache: Middle-tier Database Caching for Highly Scalable e-Business Architectures, Mehmet Altinel, Christof Bornhövd, Sailesh Krishnamurthy, C. Mohan, Hamid Pirahesh, Berthold Reinwald

IPSOFACTO: A Visual Correlation Tool for Aggregate Network Traffic Data, Flip Korn, S. Muthukrishnan, Yunyue Zhu

SOQET: Semantic OLAP with Compressed Cube and Summarization, Laks V.S. Lakshmanan, Jian Pei, Yan Zhao

15:30-16:00
Afternoon Coffee Break (Atlas Foyer)

16:00-18:00
PODS Session 7: XML (Garden Salon 2)
Chair: Gerhard Weikum

Correlating XML Data Streams Using Tree-Edit Distance Embeddings, Minos Garofalakis, Amit Kumar

Numerical Document Queries, Anca Muscholl, Thomas Schwentick, Helmut Seidl

Typing and Querying XML Documents: Some Complexity Bounds, Luc Segoufin

The Complexity of XPath Query Evaluation, Georg Gottlob, Christoph Koch, Reinhard Pichler

SIGMOD Research Session 6: Join Algorithms (Hampton 16:00-17:00)
Chair: Alfons Kemper

Containment Join Size Estimation: Models and Methods, Wei Wang, Haifeng Jiang, Hongjun Lu, Jeffrey Xu Yu

Efficient Processing of Joins on Set-valued Attributes, Nikos Mamoulis

SIGMOD Research Session 7: Temporal Queries
(Hampton 17:00-18:00)
Chair: John Cho

Temporal Coalescing with Now, Granularity, and Incomplete Information, Curtis Dyreson

Query by Humming: A Time Series Database Approach, Yunyue Zhu, Dennis Shasha

SIGMOD Research Session 8: Metadata Management
(Windsor 16:00-17:30)
Chair: Zack Ives

Rondo: A Programming Platform for Generic Model Management, Sergey Melnik, Erhard Rahm, Phil Bernstein

On Schema Matching with Opaque Column Names and Data Values, Jaewoo Kang, Jeffrey Naughton

Statistical Schema Integration across the Deep Web, Bin He, Kevin Chen-Chuan Chang

SIGMOD Research Session 9: Statistics
(Shffield 16:00-17:00)
Chair: Phil Gibbons

Extended Wavelets for Multiple Measures, Antonios Deligiannakis, Nick Roussopoulos

Spectral Bloom Filters, Saar Cohen, Yossi Matias

SIGMOD Industrial Session 3: Database Applications
(Shffield 17:00-18:00)
Chair: Michael Carey

Integration of Electronic Tickets and Personal Guide System for Public Transport using Mobile Terminals, Koichi Goto (RTRI), Yahiko Kambayashi (Kyoto University)

Gigascope: A Stream Database for Network Applications, Theodore Johnson (AT&T), Chuck Cranor (AT&T), Oliver Spatscheck (AT&T), Vladislav Shkapenyuk (CMU)

SIGMOD Tutorial 1 (Garden Salon 1)

Data Quality and Data Cleaning: An Overview, Theodore Johnson, Tamraparni Dasu (AT&T Labs Research)

SIGMOD Demos: Group C (Crescent)

QXtract: A Building Block for Efficient Information Extraction from Plain-Text Databases, Eugene Agichtein, Luis Gravano

PIX: Exact and Approximate Phrase
Matching in XML, Sihem Amer-Yahia, Mary Fernandez, Divesh Srivastava, Yu Xu

LockX: A System for Efficiently Querying Secure XML, SungRan Cho, Sihem Amer-Yahia, Laks V.S. Lakshmanan, Divesh Srivastava

TREX: DTD-Conforming XML to XML Transformations, Aoying Zhou, Qing Wang, Zhimao Guo, Xueqin Gong, Shihui Zheng, Hongwei Wu, Jianchang Xiao, Kun Yue, Wenfei Fan

Rainbow: Multi-XQuery Optimization Using Materialized XML Views, Xin Zhang, Bradford Pielech, Luping Ding, Brian Murphy, Ling Wang, Katica Dimitrova, Maged El Sayed, Elke A. Rundensteiner

TIMBER: A Native System for Querying XML, Stelios Paparizos, Shurug Al-Khalifa, Adrianne Chapman, H. V. Jagadish, Laks V. S. Lakshmanan, Andrew Nierman, Jignesh M. Patel, Divesh Srivastava, Nuwee Wiwatwattana, Yuqing Wu, Cong Yu

ROLEX: Relational On-Line Exchange with XML, Philip Bohannon, Xin (Luna) Dong, Sumit Ganguly, Henry F. Korth, Chengkai Li, P.P.S. Narayan, Pradeep Shenoy

19:30-21:30 SIGMOD/PODS Reception
(Terrace Salon 1-3)
Sponsored by:
San Diego Supercomputer Center

Wednesday, June 11th

8:00-8:45 Continental Breakfast (Atlas Foyer)
8:45-9:45 PODS Session 8: Security and Privacy
(Garden Salon 2 8:45-10:00)
Chair: Dan Suciu
Query-preserving Watermarking of Relational Databases and XML Documents, David Gross-Amblard
Revealing Information while Preserving Privacy, Irit Dinur, Kobbi Nissim

Limiting Privacy Breaches in Privacy Preserving Data Mining, Alexandre Evfimievski, Johannes Gehrke, Ramakrishnan Srikant

SIGMOD Research Session 10: Stream Query Processing II (Sheffield)
Chair: Yossi Matias
Chain: Operator Scheduling for Memory Minimization in Data Stream Systems, Brian Babcock, Shivnath Babu, Mayur Datar, Rajeev Motwani
Processing Set Expressions over Continuous Update Streams, Sumit Ganguly, Minos Garofalakis, Rajeev Rastogi

SIGMOD Research Session 11: Data Integration and Sharing I (Windsor)
Chair: Mariano Consens
Capturing both Types and Constraints in Data Integration, Wenfei Fan, Michael Benedikt, Chee-Yong Chan, Juliana Freire, Rajeev Rastogi
Exchanging Intensional XML Data, Tova Milo, Serge Abiteboul, Bernd Amann, Omar Benjelloun, Frederic Dan Ngoc

SIGMOD Research Session 12: Similarity Queries I (Hampton)
Chair: Hans-Peter Kriegel
Efficient Similarity Search and Classification via Rank Aggregation, Ronald Fagin, Ravi Kumar, D Shivakumar
Robust and Efficient Fuzzy Match for Online Data Cleaning, Surajit Chaudhuri, Kris Ganjam, Venkatesh Ganti, Rajeev Motwani

SIGMOD Tutorial 2 (Part 1) (Garden Salon 1)
XQuery: A Query Language for XML, Don Chamberlin (IBM Almaden Research Center)

SIGMOD Demos: Group C (Crescent)
See Monday’s Listing

9:45-10:15 Morning Coffee Break (Atlas Foyer)
10:15-11:15 SIGMOD Awards and Business Meeting (Regency Ballroom)
11:15-11:30 Break
11:30-12:30 FCRC Plenary (Grand Ballroom)
Issues in Peer-to-Peer Computing, Barbara Liskov (M.I.T.)
12:30-14:00 Lunch (Royal Palm Court)
14:00-15:30 PODS Session 9: Streams and Indexing (Garden Salon 2)
Chair: Nick Koudas
Maintaining Time-Decaying Stream Aggregates, Edith Cohen, Martin Strauss
Maintaining Variance and k-Medians over Data Stream Windows, Brian Babcock, Mayur Datar, Rajeev Motwani, Liadan O’Callaghan
Optimal Indexing Using Near-Minimal Space, C. Heeren, H. V. Jagadish, L. Pitt
On Nearest Neighbor Indexing of Non-Linear Trajectories, Charu Aggarwal, Dakshi Agrawal

SIGMOD Research Session 13: Data Integration and Sharing II (Windsor)
Chair: Phil Bernstein
Mapping Data in Peer-to-Peer Systems: Semantics and Algorithmic Issues, Anastasios Kementsietsidis, Marcelo Arenas, Renée J Miller
Extracting Structured Data from Web Pages, Arvind Arasu, Hector Garcia-Molina
Scientific Data Repositories: Designing for a Moving Target, Etzard Stotle, Gustavo Alonso, Christoph Praun, Thomas Gross

SIGMOD Research Session 14: Query Processing (Hampton)
Chair: Ken Ross
Factorizing Complex Predicates in Queries to Exploit Indexes, Surajit Chaudhuri, Prasanna Ganesan, Sunita Sarawagi

Estimating Compilation Time of a Query Optimizer, Ihab Ilyas, Jun Rao, Guy Lohman, Dengfeng Gao, Eileen Lin
A Characterization of the Sensitivity of Query Optimization to Storage Access Cost Parameters, Frederick Reiss, Tapas Kanungo

SIGMOD Industrial Session 4: Information Retrieval & Data Visualization (Sheffield)
Chair: Luis Gravano
Google in a Box - Building the Google Search Appliance, Narayanan Shivakumar (Google)

Extracting and Exploiting Structure in Text Search, Prabhakar Raghavan (Verity)
Visionary: A Next Generation Visualization System for Databases, Michael Stonebraker (MIT and Rocket Software)

SIGMOD Tutorial 2 (Part 2) (Garden Salon 1)
XQuery: A Query Language for XML, Don Chamberlin (IBM Almaden Research Center)

SIGMOD Demos: Group B (Crescent)
See Monday’s Listing

15:30-16:00 Afternoon Coffee Break (Atlas Foyer)
16:00-18:00 PODS Session 10: Integration and Mining (Garden Salon 2)
Chair: Jan Van Den Bussche
On the Decidability and Complexity of Query Answering over Inconsistent and Incomplete Databases, Andrea Calì, Domenico Lembo, Riccardo Rosati
How to Quickly Find a Witness, Daniel Kifer, Johannes Gehrke, Cristian Bucila, Walker White
Feasible Itemset Distributions in Data Mining: Theory and Application, Ganesh Ramesh, William A. Maniatty, Mohammed J. Zaki

What’s Hot and What’s Not: Tracking Most Frequent Items Dynamically, Graham Cormode, S. Muthukrishnan

SIGMOD Research Session 15: Formal Foundations (Windsor 16:00-17:00)
Chair: Wenfei Fan
A Theory of Redo Recovery, David Lomet, Mark Tuttle
Formal Semantics and Analysis of Object Queries, Gavin Bierman

SIGMOD Research Session 16: Streaming XML (Windsor 17:00-18:00)
Chair: Frank Tompa
Stream Processing of XPath Queries with Predicates, Ashish Gupta, Dan Suciu
XPath Queries on Streaming Data, Feng Peng, Sudarshan Chawathe

SIGMOD Research Session 17: Spatial and Nearest Neighbor Queries (Hampton)
Chair: Bongki Moon
Location-based Spatial Queries, Dimitris Papadias, Jun Zhang, Manli Zhu, Yufei Tao, Dik Lee
Hardware Acceleration for Spatial Selections and Joins, Chengyu Sun, Divyank Agrawal, Amr El Abbadi
An Optimal and Progressive Algorithm for Skyline Queries, Dimitris Papadias, Yufei Tao, Greg Fu, Bernhard Seeger
Contorting High Dimensional Data for Efficient Main Memory Processing, Bin Cui, Beng Chin Ooi, Kian-Lee Tan, Jianwen Su

SIGMOD Panel 2: Report on the Fourth "Where Should We Be Going" Meeting (Sheffield)
Moderators: Michael Stonebraker, Jim Gray, Hans Schek, Jeff Ullman

SIGMOD Demos: Group A (Crescent)
See Monday’s Listing

19:00-23:00
SIGMOD/PODS Banquet (Town & Country)

Thursday, June 12th
8:00-8:45
Continental Breakfast (Atlas Foyer)
8:45-9:45
SIGMOD Research Session 18: Sensor Databases (Windsor)
Chair: Guy Lohman

The Design of an Acquisitional Query Processor For Sensor Networks, Samuel Madden, Michael Franklin, Joseph Hellerstein, Wei Hong
Cache-and-Query for Wide Area Sensor Databases, Amol Deshpande, Suman Nath, Phillip Gibbons, Srinivasan Seshan

SIGMOD Research Session 19: XML Query Processing I (Hampton)
Chair: Jignesh Patel
Composing XSL Transformations with XML Publishing Views, Chengkai Li, Philip Bohannon, Hank Korth, PPS Narayan
Dynamic XML Documents with Distribution and Replication, Serge Abiteboul, Angela Bonifati, Gregory Cobena, Ioana Manolescu, Tova Milo

SIGMOD Research Session 20: Approximate Querying (Garden Salon 1)
Chair: Jiawei Han
Dynamic Sample Selection for Approximate Query Processing, Brian Babcock, Surajit Chaudhuri, Gautam Das
Evaluating Probabilistic Queries over Imprecise Data, Reynold Cheng, Dmitri V. Kalashnikov, Sunil Prabhakar

SIGMOD Industrial Session 5: CRM and Replication (Sheffield)
Chair: Michael Stonebraker
Data Management Challenges in CRM, George Colliat (Siebel Systems)
WinMagic: Subquery Elimination Using Window Aggregation, Calisto Zuzarte, Wenbin Ma, Hamid Pirahesh, Qi Cheng, Linqi Liu, Kwai Wong (IBM)

SIGMOD Demos: Potpourri (Crescent)
See Monday’s Listing
11:15-11:30
End Of SIGMOD

11:30-12:30
FCRC Plenary (Town & Country)
Building a Web Warehouse, Hector Garcia-Molina (Stanford University)

14:00-18:00
WebDB Workshop (Windsor)

Friday, June 13th
8:30-15:30
WebDB Workshop (Windsor)
8:30-17:30
DMKD Workshop (Sheffield)

Acknowledgments
The SIGMOD/PODS 2003 Conference gratefully acknowledges the contributions of the following institutions.

Sponsors
Microsoft
Oracle
IBm

Contributors
San Diego Supercomputer Center

The Design of an Acquisitional Query Processor For Sensor Networks, Samuel Madden, Michael Franklin, Joseph Hellerstein, Wei Hong
Cache-and-Query for Wide Area Sensor Databases, Amol Deshpande, Suman Nath, Phillip Gibbons, Srinivasan Seshan

SIGMOD Research Session 23: XML Query Processing II (Garden Salon 2)
Chair: Jai Shanmugasundaram
On Relational Support for XML Publishing: Beyond Sorting and Tagging, Surajit Chaudhuri, RagHAV Kaushik, Jeffrey Naughton
A Comprehensive XQuery to SQL Translation using Dynamic Interval Encoding, David DeHaan, David Toman, Mariano Consens, M. Tamer Ozu

SIGMOD Demos: Potpourri (Crescent)
See Monday’s Listing

SIGMOD Research Session 21: Monitoring Data Streams (Hampton)
Chair: Anastassia Ailamaki
Adaptive Filters for Continuous Queries over Distributed Data Streams, Chris Olston, Jing Jiang, Jennifer Widom
A Framework for Change Diagnosis of Data Streams, Charu Aggarwal

SIGMOD Research Session 22: Similarity Queries II (Windsor)
Chair: Jonathan Goldstein
Using Sets of Feature Vectors for Similarity Search on Voxelized CAD Objects, Hans Peter Kriegel, Peer Kröger, Martin Pfeifle, Matthias Schubert, Stefan Brecheisen

SIGMOD Demos: Potpourri (Crescent)