

UNIVERSITÄT LEIPZIG

www.btw2003.de



10th Conference on Database
Systems for Business,
Technology and the Web
February 26 - 28, 2003
University of Leipzig, Germany

program

- The 10th Conference on Database Systems for Business, Technology and the Web (BTW) will take place from February 26 - 28, 2003, in Leipzig. The bi-annual BTW conference is the major forum of the database and information systems communities in Germany, Austria, and Switzerland, and brings together scientists and practitioners from this central European region and beyond. The BTW 2003 comprises three invited talks of distinguished speakers, an opening ceremony in the new concert hall (Gewandhaus), a carefully selected scientific program, an industrial program, a dissertation award ceremony, a Get together reception, a guided city walking tour and the conference dinner in Auerbachs Keller. Prior to the BTW conference, four tutorials, two workshops and a student program are offered. Detailed information on the conference, tutorials and the workshops can be found at www.btw2003.de.

■ Conference Venue

The BTW 2003 conference takes place in Leipzig, a city in East Germany of great cultural heritage: it is the city of the late work of Johann Sebastian Bach, the location of Auerbachs Keller made famous by Goethe's Faust, the place where Napoleon was defeated in the Battle of Nations in 1813, and the origin of the German reunification starting with the Monday Demonstrations in 1989. The conference will be hosted by the University of Leipzig, founded in 1409, and located in the center of the city at the Augustusplatz. Driving directions can be found at www.btw2003.de. The conference office is located on the first floor of the lecture hall building and will be opened daily from 08:30 a.m. starting at Tuesday 02/25/2003.

■ Conference Fees

Online registration is available on the conference website www.btw2003.de.

BTW participants may also attend, for an additional fee, the German conference on Communication in Distributed Systems (KIVS 2003) taking place in Leipzig at the same time.

	before 01/31/2003	after 01/31/2003	incl. KIVS
Regular fee	265 EUR	290 EUR	+ 70 EUR
Members of the German Informatics Society GI	215 EUR	240 EUR	+ 70 EUR
Fulltime students	20 EUR	25 EUR	



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Monday, 02/24/2003

- 2:00 p.m. - 5:30 p.m. Database Tutorial 1
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Tuesday, 02/25/2003

- 9:00 a.m. - 12:30 p.m. Database Tutorial 2
 - 2:00 p.m. - 5:30 p.m. Database Tutorial 3
 - 9:00 a.m. - 5:30 p.m. Student-Program
 - 9:00 a.m. - 5:30 p.m. Workshop Knowledge Discovery
 - 2:00 p.m. - 5:30 p.m. Workshop Databases & E-Learning
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Wednesday, 02/26/2003

- 9:00 a.m. - 11:00 a.m. Opening Ceremony BTW / KIVS + Invited Talk in the new concert hall (Gewandhaus)
 - 9:00 a.m. - 12:30 p.m. Database Tutorial 4
 - 11:30 a.m. - 5:30 p.m. Scientific Program BTW 2003
 - 5:45 p.m. - 7:30 p.m. Get Together Reception
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Thursday, 02/27/2003

- 9:00 a.m. - 10:30 a.m. Invited Talk
 - 11:00 a.m. - 5:30 p.m. Scientific Program BTW 2003
 - 11:00 a.m. - 5:30 p.m. Industrial Program BTW 2003
 - 5:45 p.m. Meeting of GI-Fachgruppe Database systems
 - 7:30 p.m. Conference Dinner BTW / KIVS at Auerbachs Keller
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Friday, 02/28/2003

- 9:00 a.m. - 10:30 a.m. Invited Talk
- 11:00 a.m. - 12:00 p.m. Scientific Program BTW 2003
- 12:00 p.m. - 12:45 p.m. Closing Session with Dissertation Award Ceremony
- 2:00 p.m. - 4:00 p.m. Guided City Walking Tour



- **9:00 a.m. – 10:00 a.m.** Opening Ceremony BTW / KIVS in the new concert hall (Gewandhaus) (Moderator: Klaus Irsmscher)
 Welcome Address: Prof. Dr. V. Bigl (Rector), Dr. Dr. G. Maibaum (Ministry), D. Schubert (City of Leipzig), Music by the Quartet of the Academic Orchestra Leipzig
- **10:00 a.m. – 11:00 a.m.** Session 1: Invited Talk (Chair: Erhard Rahm)
 Frank Leymann (IBM Germany, Böblingen, Photo): *Web Services: Distributed Applications Without Limits*

☕ Coffee break
- **11:30 a.m. – 12:45 p.m.** Session 2: Query Processing (Chair: Gottfried Vossen)
 Goetz Graefe (Microsoft): *Executing Nested Queries*
 Kai-Uwe Sattler, Ingolf Geist, Rainer Habrecht, Eike Schallehn (Univ. of Magdeburg): *Konzeptbasierte Anfrageverarbeitung in Mediatorsystemen*
 Pedro Jose Marron, Georg Lausen, Martin Weber (Univ. of Freiburg): *Catalog Integration Made Easy* (short paper)

🍽 Lunch break
- **2:00 p.m. – 3:30 p.m.** Session 3: XML (Chair: Stefan Deßloch)
 Wolfgang Lehner, Florian Irmert (Univ. of Erlangen): *XPath-Aware Chunking of XML-Documents*
 Bernhard Zeller, Axel Herbst, Alfons Kemper (Univ. of Passau, SAP): *XML-Archivierung betriebswirtschaftlicher Datenbank-Objekte*
 Wolfgang May, Dimitrio Malheiro (Univ. of Freiburg): *A Logical, Transparent Model for Querying Linked XML Documents* (short paper)
 Markus Kalb, Kerstin Schneider, Günther Specht (Univ. of Ulm): *T-XPath: ein zeitliches Modell für XML-Datenbanken* (short paper)

☕ Coffee break
- **4:00 p.m. – 5:30 p.m.** Session 4a: Information Retrieval (Chair: Andreas Heuer)
 Andreas Henrich, Günter Robbert (Univ. of Bayreuth): *Ein Ansatz zur Übertragung von Rangordnungen bei der Suche auf strukturierten Daten*
 Nadine Schulz, Ingo Schmitt (Univ. of Magdeburg): *Relevanzziehung in komplexen Multimediaanfragen* (short paper)
 Stefan Siersdorfer, Sergej Sizov (Univ. of the Saarland): *Konstruktion von Featureräumen und Metaverfahren zur Klassifikation von Webdokumenten* (short paper)
 Alexander Hinneburg, Dirk Habich (Univ. of Halle): *Ähnlichkeitssuche in Musik-Datenbanken mit Hilfe von Visualisierungen* (short paper)
 Anja Theobald (Univ. of the Saarland): *An Ontology for Domain-oriented Semantic Similarity Search on XML Data* (short paper)
- **4:00 p.m. – 5:30 p.m.** Session 4b: Consistency and Standards (Chair: Norbert Ritter)
 Martin Kempa, Volker Linnemann (Univ. of Luebeck): *Type Checking in XOBÉ*
 Knut Stolze (Univ. of Jena): *SQL/MM Spatial - The Standard to Manage Spatial Data in a Relational Database System*
 Olaf Buck, Volker Linnemann (Univ. of Luebeck): *Verballisierung von Datenbanktransaktionen* (short paper)
 Jens Lüfter (Univ. of Jena): *Integritätsbedingungen für komplexe Objekte in objektrelationalen Datenbanksystemen* (short paper)
- **5:45 p.m. – 7:30 p.m.** Get Together Reception

■ **9:00 a.m. - 10:30 a.m.** Session 5: Invited Talk (Chair: Gerhard Weikum)

Alon Halevy (University of Washington, Seattle, Photo):
Data Integration: A Status Report



■ **11:00 a.m. - 12:30 p.m.** Session 6:
Index Structures (Chair: Alfons Kemper)

Hans-Peter Kriegel, Martin Pfeifle, Marco Pötke,
Thomas Seidl (LMU Munich): *Relational
Indexing as a New Paradigm: a Survey*

Michael G. Bauer, Frank Ramsak, Rudolf Bayer
(TU Munich): *Indexing XML as a
Multidimensional Problem*

Carsten Kleiner, Udo W. Lipeck (Univ. of
Hannover): *OraGIST - How to Make User-
defined Indexing Become Usable and Useful*
(short paper)

Erik Buchmann, Klemens Boehm (Univ. of
Magdeburg): *Effizientes Routing in verteilten
skalierbaren Datenstrukturen* (short paper)



■ **2:00 p.m. - 3:30 p.m.** Session 7:
Distributed Systems and Web Services (Chair:
Kai-Uwe Sattler)

Markus Keidl, Stefan Seltzsam, Christof König,
Alfons Kemper (Univ. of Passau): *Kontext-
basierte Personalisierung von Web Services*

Erich Müller, Peter Dadam, M. Feltes (Univ. of
Ulm, DaimlerChrysler): *Efficient Assembly of
Product Structures in Worldwide Distributed
Client/Server Environments*

Jens Graupmann, Michael Blwer, Patrick
Zimmer (Univ. of the Saarland): *Towards
Federated Search Based on Web Services*
(short paper)

Dietrich Boles (Uni Oldenburg): *Von digitalen
Bibliotheken zu Online-Shops mit digitalen
Produkten* (short paper)



■ **11:00 a.m. - 12:30 p.m.** Industrial Session 1:
Integration and Configuration (Chair: Uta
Störi)

Udo Nink, Stefan Schäfer (CronideSoft AG):
The IOP Approach to Enterprise Frameworks

Anja Schanzenberger, Colin Tully, D.R.
Lawrence (GfK): *Überwachung von
Aggregationszuständen in verteilten
komponentenbasierten Datenproduktions-
systemen*

Robert Marti (Swiss Re): *Information
Integration in a Global Enterprise: Some
Experiences from a Financial Services
Company* (short paper)

Marc Bastien (Oracle): *Integration von ETL
und OLAP in die relationale DWH-
Technologie: mehr Lösung für weniger
Aufwand?* (short paper)

■ **2:00 p.m. - 3:30 p.m.** Industrial Session 2:
XML and Tuning (Chair: Harald Schöning)

Thomas Tesch, Peter Fankhauser, Tim Weitzel
(Infonyte): *Skalierbare Verarbeitung von
XML mit Infonyte-DB*

Michael Gesmann (Software AG):
*Manipulation von XML-Dokumenten in
Tamino*

Ulrike Schwinn (Oracle): *XML in der Oracle
Datenbank "relational and beyond"* (short
paper)

Eva Kwan, Sam Lighthouse, Berni Schiefer,
Adam Storm, Leanne Wu (IBM): *Automatic
Database Configuration for DB2 Universal
Database: Compressing Years of
Performance Expertise into Seconds of
Execution* (short paper)

- **4:00 p.m. - 5:30 p.m.** Session 8:
 Consistency, Replication, Workflow (Chair:
 Manfred Reichert)

Lutz Schlesinger, Wolfgang Lehner (Univ. of
 Erlangen): *Konsistenzquantifizierung in Grid-
 Datenbanksystemen*

Ulrike Greiner, Erhard Rahm (Univ. of
 Leipzig): *WebFlow: Ein System zur flexiblen
 Ausführung webbasierter, kooperativer
 Workflows* (short paper)

Markus Bon, Norbert Ritter, Hans-Peter
 Steiert (Univ. of Kaiserslautern, Univ. of
 Hamburg, DaimlerChrysler): *Modellierung
 und Abwicklung von Datenflüssen in
 unternehmensübergreifenden Prozessen*
 (short paper)

Heiko Niemann, Wilhelm Hasselbring, Michael
 Huelsmann, Oliver Theel (OFFIS, Univ. of
 Oldenburg): *Realisierung eines adaptiven
 Replikationsmanagers mittels J2EE-
 Technologie* (short paper)

Christoph Gollmick (Univ. of Jena):
*Nutzerdefinierte Replikation zur Realisierung
 neuer mobiler Datenbankanwendungen*
 (short paper)

- **4:00 p.m. - 5:30 p.m.** Industrial Session 3:
 Data Warehousing and Indexing (Chair:
 Hans-Jürgen Appelrath)

Michael Hahne (cundus AG): *Logische
 Datenmodellierung zur Abbildung
 mehrdimensionaler Datenstrukturen im SAP
 Business Information Warehouse*

Roland Pieringer, Klaus Elhardt, Frank
 Ramsak, Volker Markl, Robert Fenk, Rudolf
 Bayer (Transaction Software, IBM,
 FORWISS): *Transbase: a Leading-edge
 ROLAP Engine Supporting Multidimensional
 Indexing and Hierarchy Clustering*

Götz Graefe (Microsoft): *Partitioned
 B-trees - a user's guide*

- **5:45 p.m.** Meeting of GI-Fachgruppe Database systems

- **7:30 p.m.** Conference Dinner BTW / KIVS at Auerbachs Keller





- **9:00 a.m. - 10:30 a.m.** Session 9: Invited Talk (Chair: Gerhard Weikum)
Peter Lockemann (Uni Karlsruhe, Photo): *Information System Architecture: From Art to Science*
☕ Coffee break
- **11:00 a.m. - 12:00 p.m.** Session 10: Database Technology for Life Sciences (Chair: Klaus Küspert)
Stephan Heymann, Katja Tham, Peter Rieger, Johann-Christoph Freytag (Humboldt-Univ. Berlin): *Rechnergestützte Suche nach Korrelationen in komplexen Datensätzen der Biowissenschaften*
Hong Hai Do, Toralf Kirsten, Erhard Rahm (Univ. of Leipzig): *Comparative Evaluation of Microarray-based Gene Expression Databases*
- **12:00 p.m. - 12:45 p.m.** Session 11: Closing Session with Dissertation Award Ceremony (Chair: Andreas Heuer)
Reinhard Braumandl (Univ. of Passau): *Quality of Service and Optimization in Data Integration Systems*
Jens Lechtenböcker (Univ. of Münster): *Data Warehouse Schema Design*
- **2:00 p.m. - 4:00 p.m.**
Guided City Walking Tour

■ **Conference chair:**

Erhard Rahm, Univ. of Leipzig

■ **Program committee:**

Gerhard Weikum (Chair, Univ. of the Saarland)
Hans-Jürgen Appelrath (Univ. of Oldenburg)
Thomas Brinkhoff (FH Oldenburg)
Stefan Conrad (Univ. of Düsseldorf)
Stefan Deßloch (Univ. of Kaiserslautern)
Klaus Dittich (Univ. of Zurich)
Peter Fankhauser (FhG IPSI and Infonyte)
Norbert Fuhr (Univ. of Duisburg)
Torsten Grust (Univ. of Konstanz)
Andreas Heuer (Univ. of Rostock)
Stefan Jablonski (Univ. of Erlangen)
Gerti Kappel (Tech. Univ. of Vienna)
Alfons Kemper (Univ. of Passau)
Arnd Christian König (Microsoft Research)
Donald Kossmann (Tech. Univ. of Munich)
Thomas Kudraß (HTWK Leipzig)
Klaus Küspert (Univ. of Jena)
Alexander Maedche (FZI Karlsruhe)
Volker Markl (IBM Almaden Research Center)
Bernhard Mitschang (Univ. of Stuttgart)
Erhard Rahm (Univ. of Leipzig)
Kai Rannenberg (Univ. of Frankfurt)
Manfred Reichert (Univ. of Ulm)
Norbert Ritter (Univ. of Hamburg)

Kai-Uwe Sattler (Univ. of Magdeburg/Halle)
Bernhard Seeger (Univ. of Marburg)
Agnes Voisard (Free Univ. of Berlin)
Gottfried Vossen (Univ. of Münster)
Mechtild Wallrath (DZ Bank AG)
Walter Waterfeld (Software AG)
Roger Weber (ETH Zurich)
Mathias Weske (HPI Potsdam)
Robert Winter (Univ. of St. Gallen)

■ **Industrial committee:**

Harald Schöning (Chair, Software AG)
Achim Kraiß (SAP)
Frank Leymann (IBM)
Thomas Ruf (GfK Marketing Services)
Uta Störl (Dresdner Bank)

■ **Student program chairs:**

Gunter Saake (Univ. of Magdeburg)
Andreas Oberweis (Univ. of Frankfurt)

■ **Tutorial program chair:**

Klaus Küspert (Univ. of Jena)

■ **Organisation committee:**

Erhard Rahm (Univ. of Leipzig)
Ulrike Greiner (Univ. of Leipzig)
Thomas Kudraß (HTWK Leipzig)
Myra Spiliopoulou (HHL Leipzig)

