

## First TPC Technology Conference on Performance Evaluation and Benchmarking

<http://www.tpc.org/tpctc2009>

Collocated with VLDB2009, 8:30AM to 8:00PM August 24, 2009 – Lyon, France  
**PROGRAMME**

**08:30 – 08:45 Opening Remarks and Welcome: Raghunath Nambiar (Hewlett-Packard), General Chair**

**08:45 – 09:00 TPC Public Relations Presentation**

*Transaction Processing Performance Council (TPC): Twenty Years Later – A Look Back, A Look Ahead*

Raghunath Nambiar (Hewlett-Packard), Matthew Lanken (Oracle), Nicholas Wakou (Dell), Forrest Carman (Owen Media), Michael Majdalany (LoBue & Majdalany Magt Group)

**09:00 – 09:45 Keynote Speech: A New Direction for TPC, Michael Stonebraker (MIT)**

**09:45 – 10:30 Invited Talk: The Art of Building a Good Benchmark, Karl Huppler (IBM), Chairman TPC**

**10:30 – 11:00 Coffee Break**

**11:00 – 12:30 Session 1 - Emerging Benchmark Areas**

*Databases are not Toasters: A Framework for Comparing Data Warehouse Appliances*

Omer Trajman (Vertica), Alain Crolotte (Teradata), David Steinhoff (ParAccel), Raghunath Nambiar (Hewlett-Packard), Meikel Poes (Oracle)

*The State of Energy and Performance Benchmarking for Enterprise Servers*

Andrew Fanara (US EPA), Evan Haines (ICF International), Arthur Howard (ICF International)

*From Performance to Dependability Benchmarking: A Mandatory Path*

Marco Vieira (University of Coimbra), Henrique Madeira (University of Coimbra)

*Overview of TPC Benchmark E: The Next Generation of OLTP Benchmarks*

Patricia Hogan (IBM)

**12:30 – 14:00 Lunch Break**

**14:00 – 15:30 Session 2 - New Approaches in Benchmarking**

*DSQGEN, a Generic Query Generator for TPC-H*

John Stephens (Gradient Systems), Meikel Poes (Oracle)

*Generating Shifting Workloads to Benchmark Adaptability in Relational Database Systems*

Tilmann Rabl (University of Passau), Andreas Lang (University of Passau), Thomas Hackl (University of Passau), Bernhard Sick (University of Passau), Harald Kosch (University of Passau)

*Measuring Database Performance in Online Services: a Trace-Based Approach*

Swaroop Kavalanekar (Microsoft), Dushyanth Narayanan (Microsoft Reserach), Sriram Sanka (Microsoft), Eno Thereska (Microsoft Research), Kushagra Vaid (Microsoft), Bruce Worthington (Microsoft)

*Issues in Benchmark Metric Selection*

Alain Crolotte (Teradata)

**15:30 – 16:00 Coffee Break**

**16:00 – 17:30 Session 3 - New Benchmarks (1)**

*Benchmarking Query Execution Robustness*

Janet L. Wiener (HP labs), Harumi Kuno (HP labs), Goetz Graefe (HP labs)

*Benchmarking Database Performance in a Virtual Environment*

Sharada Bose (Hewlett-Packard), Priti Mishra (VMware), Priya Sethuraman (VMware), Reza Taheri (VMware)

*Principles for an ETL Benchmark*

Len Wyatt (Microsoft), Brian Caufield (IBM), Daniel Pol (Hewlett-Packard)

*Benchmarking ETL Processes*

Alkis Simitis (HP labs), Panos Vassiliadis (University of Ioannina), Umeshwar Dayal (HP labs), Anastasios Karagiannis (University of Ioannina), Vasiliki Tziouvara (University of Ioannina)

**17:30 – 17:40 Break**

**17:40 – 18:40 Session 4 - New Benchmarks (2)**

*A Performance Study of Event Processing Systems*

Marcelo R.N. Mendes (University of Coimbra), Pedro Bizarro (University of Coimbra), Paulo Marques (University of Coimbra)

*The Star Schema Benchmark and Augmented Fact Table Indexing*

Patrick O'Neil (University of Massachusetts at Boston), Elizabeth O'Neil (University of Massachusetts at Boston), Xuedong Chen (University of Massachusetts at Boston), Stephen Revilak University of Massachusetts at Boston)

*An Approach of Performance Evaluation in Authentic Web Database Applications*

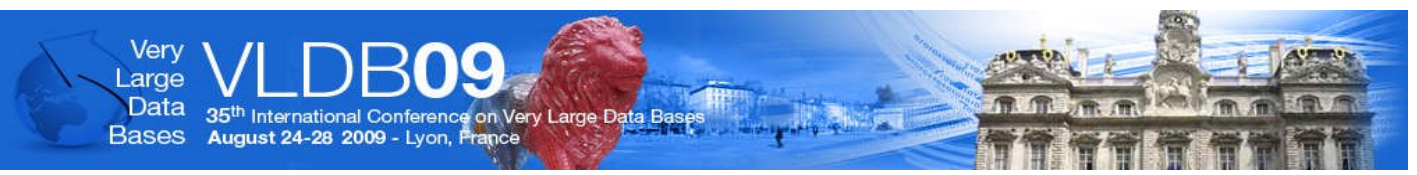
Xiaojun Ye (Tsinghua University), Jingmin Xie (Tsinghua University)

**18:40 – 19:00 Closing Remarks: Meikel Poes (Oracle), Program Committee Chair**

**19:00 – 20:00 Cocktail Hour (Sponsored by the TPC)**

**Proceedings**

Proceedings will be published as Lecture Notes in Computer Science (LNCS) Volume by [Springer-Verlag](http://www.springer-verlag.com).



## CALL FOR PAPERS

### First TPC Technology Conference on Performance Evaluation and Benchmarking

<http://www.tpc.org/tpctc2009>

Collocated with VLDB09, August 24, 2009 – Lyon, France

The Transaction Processing Performance Council (TPC) is a non-profit organization established in August 1988. Over two decades, it has shaped the landscape of modern transaction processing and database benchmarks. Now, the world is in the midst of an extraordinary information explosion. Enterprise data and user generated data levels continue to grow exponentially. This has challenged researchers and industry experts to develop innovative techniques to evaluate and benchmark software and hardware technologies for 2010 and beyond.

As a result, the TPC is conducting a conference in conjunction with VLDB09, and encourages researchers and industry experts to submit novel ideas and methodologies in performance evaluation, measurement, and characterization in the following areas:

- Appliance
- Business Intelligence
- Cloud computing
- Complex event processing
- Database performance optimizations
- Green computing
- Data compression
- Disaster tolerance and recovery
- Energy and space efficiency
- Hardware innovations
- High speed data generation
- Hybrid workloads or operational data warehousing
- Unstructured data management
- Software management and maintenance
- Virtualization
- Very large memory systems

#### Important Dates

Abstracts due: June 5, 2009

Papers due: June 12, 2009

Notification of acceptance: July 15, 2009

Camera-ready copies: **July 17, 2009**

Workshop date: **8:30- 18:00, August 24, 2009**

#### Submission Guidelines

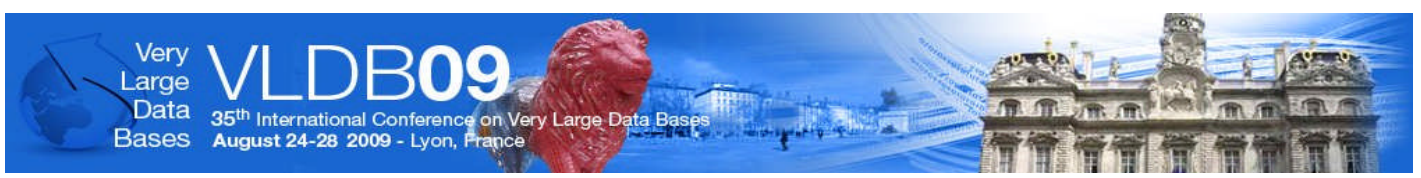
Authors are invited to submit original, unpublished papers that are not currently under review for any other conference or journal. We also encourage the submission of extended abstracts, position statement papers and lessons learned in practice. The length of a paper should not exceed 16 pages. Papers should follow the LNBIP format, see <http://www.springer.com/computer/lncs?SGWID=0-164-7-487211-0> for details. The title page must contain a short abstract. A template in word can be downloaded from [http://www.springer.com/cda/content/document/cda\\_downloadaddocument/word.zip?SGWID=0-0-45-72919-0](http://www.springer.com/cda/content/document/cda_downloadaddocument/word.zip?SGWID=0-0-45-72919-0). All papers should be submitted electronically in PDF format to the review website at <https://cmt.research.microsoft.com/tpctc2009/>.

#### Conference Venue and Registration

Please visit VLDB09 conference website at <http://www.vldb2009.org>.

#### Proceedings

Proceedings will be published as Lecture Notes in Computer Science (LNCS) Volume by [Springer-Verlag](http://www.springer.com). Selected papers will be considered for future TPC benchmark developments.



## TPC TC 2009 Organization

### First TPC Technology Conference on Performance Evaluation and Benchmarking

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#### General Chair

Raghunath Nambiar, Hewlett-Packard, [raghu.nambiar@hp.com](mailto:raghu.nambiar@hp.com)

#### Program Committee:

Meikel Poess, Oracle, USA, Committee Chair  
Alain Crolotte, Teradata, USA  
Berni Schiefer, IBM, Canada  
Krithi Ramamritham, IIT Bombay, India  
Masaru Kitsuregawa, University of Tokyo  
Mike Molloy, Dell, USA  
Murali Krishna, Hewlett-Packard, USA  
Omer Trajman, Vertica, USA  
Paul Larson, Microsoft, USA  
Yicheng Tu, University of South Florida, USA

#### Publicity Committee:

Nicholas Wakou, Dell, Committee Chair  
Jerrold Buggert, Unisys  
Matthew Lancken, Oracle  
Michael Majdalany, L&M Management Group  
Peter Thawley, Sybase

**Keynote:** Michael Stonebraker, MIT

**Invited Talk:** Karl Huppler, IBM, Chairman TPC

#### About TPC

The TPC is a non-profit corporation founded to define transaction processing and database benchmarks and to disseminate objective, verifiable TPC performance data to the industry.

The TPC currently has 25 full members: AMD, Bull, Dell, Fujitsu, Fusion IO, Greenplum, HP, Hitachi, IBM, Ingres, Intel, Kickfire, Microsoft, NEC, Netezza, Oracle, ParAccel, Sun, Sybase, Syncsort, Teradata, Unisys, Vertica, VMware and XSPRADA; and three associate members: Ideas International, ITOM International Co and TTA. Further information is available at <http://www.tpc.org>.

Special invitation for academic and government institutions can be found at <http://www.tpc.org/information/specialinvitation.asp>.

#### About VLDB

Very Large Data Base Endowment Inc. (VLDB Endowment) is a non-profit organization incorporated in the United States for the sole purpose of promoting and exchanging scholarly work in databases and related fields throughout the world. One of its vehicles for achieving its objectives is the sponsorship and support of the annual VLDB conference, a premier annual international forum for database researchers, vendors, practitioners, application developers, and users.

VLDB 2009, the 35th conference in the series, will be held in Lyon, France. The conference will feature research talks, tutorials, demonstrations, and workshops. It will cover current issues in database and information systems research. Databases remain one of the technological cornerstones of emerging applications of the twenty-first century.

Further information is available at <http://www.vldb2009.org>.

