

Second Workshop on Dependable Distributed Data Management

affiliated with EuroSys 2008 Conference

March 31, 2008, Glasgow, Scotland

<http://gorda.di.uminho.pt/wdddm08/>

Program Chairs

Calton Pu
*Georgia Institute of Technology,
USA*

Martin Kersten
CWI, Netherlands

Rui Oliveira
U. Minho, Portugal

Organizing Chair

José Pereira
U. Minho, Portugal

Programme Committee

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ETHZ, Switzerland

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U. P. Navarra, Spain

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Yahoo!, Spain

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Microsoft, USA

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U. Nantes, France

Maarten Van Steen
Vrije U., Netherlands

Haruo Yokota
*Tokyo Institute of Technology,
Japan*

About

The goal of the workshop is to bring together researchers and practitioners from systems, database and dependability communities to discuss the current state of the art, pending challenges and trends, and novel solutions in the design, implementation and deployment of distributed and dependable data management systems.

Scope

Relational databases have been for a long time the keystone of information systems' dependability. Database management systems (DBMS) offer a uniform approach to data integrity, durability, and availability, using tried and tested techniques based on a set of unanimously accepted and well understood assumptions.

However, the expectations on the DBMS itself are changing and there is an unprecedented call for a complete rewrite: The general purpose relational DBMS architecture dating back from the 70's is being convincingly challenged by a number of specialized systems for text indexing, data warehousing, stream processing, and array storage. Most strikingly, the winds of change are felt even within the common enterprise data center, where the widespread need for practical scale-out and near zero downtime translates to an increased appetite for cheap and efficient consistent replication and for shared-nothing clusters built on commodity hardware and software.

Novel peer-to-peer applications, grid computing, and the emergence of cloud computing further push the envelope for radically different data management solutions. A major trend in all such emerging proposals, with a profound impact in dependability, is that large scale distribution is a core assumption in their design. This translates in very large number of nodes, wide area geographical distribution, diverse administrative domains, and pervasive heterogeneity.

It is thus desirable to reevaluate time tested assumptions that underly the dependability mechanisms in database management systems and explore different performance and functionality tradeoffs. And explore the consequences on complex information systems built on them.

Topics

Topics of interest to the workshop include, but are not limited to:

- System assumptions for dependability and performance
- Novel application scenarios and consistency requirements
- Scaling-out to very large number of nodes: peer-to-peer databases and the data grid
- Autonomic versus orchestrated central control
- Diversity and software reliability

Format

The workshop welcomes two kinds of contributions:

- **Short position papers** with early and/or controversial ideas that foster discussion but are not (yet) fully developed. The maximum size is 4 pages in the ACM Conference Proceedings style.
- **Research papers** which present mature original work. The maximum size is 10 pages in the ACM Conference Proceedings style.

Since submissions must strictly adhere to ACM Conference Proceedings style, submitters are strongly encouraged to use the ACM SIG Proceedings Templates. In order to get included in the EuroSys 2008 proceedings CD, accepted contributions must be presented at the workshop and comply with the ACM Copyright Policy.

Important Dates

- **Paper submission: February 1, 2008**
- Author notification: February 25, 2008
- Camera-ready due: March 15, 2008
- Workshop date: March 31, 2008

Additional Information

For more information visit the workshop web site or contact the organizers at wdddm@lsd.di.uminho.pt.

