

VLDB'99 Conference  
Preliminary Conference Announcement and Call For Papers  
25th International Conference on Very Large Databases  
Edinburgh, Scotland, UK  
September 7th - 10th 1999



Latest details of the conference can be found at:  
<http://www.dcs.napier.ac.uk/~vlldb99/>

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VLDB'99, the Silver Jubilee VLDB, conference will be held in Edinburgh, Scotland. It will present and review the latest achievements in database research and applications.

The maturity and judgement developed in this discipline over the last 25 years must now advance rapidly to accommodate dramatic increases in the loads imposed on database systems and in the diversity of their uses. As the engineering for databases improves so the use of metrics to validate achievements becomes progressively more important. Moreover, the emergence of new technologies such as ubiquitous computing, mobile devices and high-bandwidth communications, makes further demands on database technology. Databases also facilitate the incremental construction of ever larger and more sophisticated information systems. Are databases a match for the requirements of the next millennium?

You are invited to submit papers reporting recent results in the general field of databases. The VLDB paper presentations take three forms. Standard research papers take the traditional form, whilst more speculative papers explore the future evolution of the database field to develop a vision of future database research, development and use. Experience and application papers from industry will describe the construction or operation of new and challenging applications of databases. Panels, tutorials and exhibits will communicate issues, views, new approaches and hard information about the practical leading edge of database technology, applications and techniques.

**Topics of Interest**

The topics of interest include, but are not limited to:

Active Databases	Mobility and Databases
Advanced Applications of Databases	Multidimensional Databases
Authorization and Security	Multimedia Databases
Concurrency Control and Recovery	On-line Analytical Processing
Continuous Operation	Object-Oriented Database Systems
DBMS Architectures	Optimization and Performance
Data Mining and Knowledge Discovery	Parallel and Distributed Databases
Data Models and Database Design	Programming Language and Database Integration
Data Transformation & Integration	Real-time Databases
Data Warehousing	Replication, Caching, and View Materialization
Databases as Components in Large Systems	Scientific and Statistical Databases
Database Benchmarks and Measurement	Semi-structured Data
Database-centred Software Engineering	Spatial Databases
Database Constraint Management	Telecoms and Call-Centre Applications
Database Evolution and Migration	Temporal Databases
Database Languages and Semantics	Text Databases
Databases and Electronic Commerce	Tractable, Realistic Models of Database Mechanisms and their Calibration
Engineering Databases for Design, Production & Operation	Ubiquitous Service Provision
Financial Applications of Databases	User Interfaces
Geographic Information Systems	Visualizing the Structure and Content of Databases
Globally Distributed Databases	View Management
Heterogeneous and Federated Databases	Visual Query Languages and Tools
Information Retrieval and Database System Synergy	World-wide Database Services
Internet/Intranet Services and Databases	Workflow Systems
Knowledge Base Management Systems	
Logic and Databases	

## **Submission Procedures**

Six copies of original papers should be submitted to the appropriate conference programme co-chair depending on the geographic region in which the authors of the paper reside by 22<sup>nd</sup> February 1999. Papers must not be under consideration nor published elsewhere.

Papers should not exceed 20 pages double-spaced and should be typeset in 11-point font; over-length papers will be rejected without review. An abstract of the paper must be submitted electronically by 15<sup>th</sup> February 1999 with an indication whether the paper should be judged under traditional research, vision or experience criteria. Arrangement details for electronic and postal submission will appear on the VLDB'99 web site in January 1999.

### **Geographic Regions**

Research papers should be submitted to the programme committee co-chair associated with the region of the principal author. Any queries regarding this should be addressed to the programme committee chair, Malcolm Atkinson. Panel, tutorial, industrial and exhibit proposals should be addressed to the appropriate chair.

### **Research Papers**

These will contain significant and original research results. Papers reporting and evaluating new architectures, structures, methods, systems and models are encouraged, particularly where these are carefully validated against realistic criteria, such as typical test loads and data volumes. They will be evaluated on: originality, innovation, relevance, abstraction, technical depth, clarity and potential practical impact.

### **Vision Papers**

These provide a medium for discussion of expected technological, economic and social developments and their impact on databases. These papers are inevitably speculative, yet are expected to present clearly a scientifically and technically convincing argument of relevance to the database community.

### **Experience and Application Papers**

This section provides a forum for discussion of experiences in implementing DBMSs or in applying DBMS technology in challenging situations. Criteria for papers in this section will include novelty, technical quality, clarity and the anticipated value of results to developers or users. Reports of industrial experience of using databases will be particularly welcome.

### **Panel and Demonstration Proposals**

Panel proposals should address exciting, new and controversial issues and must be debate-oriented rather than a series of short presentations. They should pose specific questions that the panellists will be called to answer and should expose the controversy around those questions. A list of confirmed participants with their affiliations should be included in the proposal.

Demonstrations should illustrate new technology, advances in applying databases or new techniques, often complementing a paper. Panels and demonstrations will have up to 4 pages in the proceedings. Panels proposals will set the context, issues and viewpoint of the planned discussions. Demonstration proposals will explain what will be shown, detailing the significance of the contribution to database technology, applications or techniques. Panel and Demonstration proposals should be submitted to Ron Morrison, electronically or hard-copy by 22<sup>nd</sup> February 1999.

### **Tutorial Proposals**

Tutorial proposals must clearly identify the intended audience, which should be broader than the database research community or should introduce the database community to a new concept or technology. Alternatively, a tutorial should stimulate synergy between databases and another relevant research field.

Enough material should be included in a proposal to provide a sense of both the scope and depth that will be covered. Evidence should be submitted that a high-quality presentation will be achieved in a standard 3-hour tutorial period. We seek novel topics of wide interest and emerging in importance. Tutorial proposals should be submitted to the Carole Goble, electronically or hard-copy by 22<sup>nd</sup> February 1999.

### **Exhibits Proposals**

VLDB'99 will display exhibits from both industry, commerce, vendors and research groups. To propose your participation in the exhibits programme contact the exhibits programme chair, Lachlan MacKinnon by 8<sup>th</sup> May 1999. Early dialogue would be very helpful.

### **Important Dates**

15 <sup>th</sup> February 1999	Abstract Submission Deadline
22 <sup>nd</sup> February 1999	Paper, Panel, Demonstration & Tutorial Deadline
8 <sup>th</sup> May 1999	Exhibit Deadline
15 <sup>th</sup> May 1999	Notification of Acceptance
1 <sup>st</sup> June 1999	Camera Ready Papers Due
7 <sup>th</sup> September 1999	VLDB'99 Conference Opens in Edinburgh