

# Lecture Notes in Computer Science

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J. Demetrovics B. Thalheim (Eds.)

## MFDBS 89

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Proceedings

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## Preface

Within the last 20 years the database area has enriched computer science with a set of important practical and deep theoretical results. The main topics in modern database theory are nowadays: theoretical fundamentals of database models (dependency theory, design theory, extensions of the relational, the entity-relationship and semantic models), extended database semantics (complex data objects, databases and logic, extended data semantics and data types), theoretical fundamentals for extended architectures and system support (transaction models, concurrency, data distribution, data access, query, integrity, security).

A great deal of work has been done, and there is a need for intensive exchange of experience. Therefore, the MFDBS symposia are organized every odd year. The first one was held in Dresden in 1987, the second one will be held in Visegrád, Hungary, June 26-30, 1989.

This volume is a collection of the most important contributions of the Visegrád Symposium. The papers selected from more than 100 submissions, originating from 23 countries in 4 continents, can be divided roughly into the following sections:

Theoretical Fundamentals of Relational Databases;  
Logical Foundations and Databases;  
Data Modelling;  
Database Design;  
Deductive Databases;  
Transaction Management and Security;  
Concurrency Control and Distributed Databases.

For their careful evaluation of the submitted papers we should like to express our sincere thanks to the members of the program committee, S. Abiteboul, G. Ausiello, A. Benczúr, J. Biskup, S. Ceri, G. Katona, R. Kirkova, J. Paredaens, V. Pasichnik, A. Riha, Y. Sagiv, J.W. Schmidt, A. Stogniy, M.Y. Vardi, and also to the other reviewers, K. Bähler, F. Bry, H.H. Brüggemann, B. Convent, R. Kemp, U.W. Lipeck, R. Manthey, U. Räsch, H. Stiefeling, and H. Thiele.

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Budapest, Kuwait  
March 1989

J. Demetrovics and B. Thalheim  
Co-Chairmen

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