

Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanis

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M. Gyssens J. Paredaens
D. Van Gucht (Eds.)

ICDT '88

2nd International Conference on Database Theory
Bruges, Belgium, August 31 – September 2, 1988
Proceedings



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Preface

The International Conference on Database Theory (ICDT) is organized every two years under the auspices of the European Association for Theoretical Computer Science (EATCS). It intends to provide a European forum for the international research community working on theoretical issues related to database systems. The first ICDT conference was organized in September 1986 in Rome. The proceedings of this meeting were published in LNCS 243.

The University of Antwerp, Belgium, has organized the second ICDT conference from August 31 to September 2, 1988, in Bruges, the world-famous charming city, not far from the North Sea, often nicknamed "Venice of the North" for its medieval atmosphere and the numerous small canals crossing the city.

The main topics of ICDT '88 were

- Dynamic Aspects of Databases
- Logic and Deductive Databases
- Complexity and Optimization
- Object Oriented Databases
- Data Models and Query Languages
- Miscellaneous Topics

From a total of 87 submitted papers from 18 countries, 23 have been selected for presentation.

There were also three invited talks:

- Nancy Lynch: "A Theory of Atomic Transactions"
- Serge Abiteboul: "Updates, a New Frontier"
- Catriel Beeri: "Data Models and Languages for Databases".

The Program Committee consisted of twelve members:

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They were assisted by 45 referees:

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Finally we wish to thank all the others who helped us with the organization of ICDT '88, especially Lydia Janssens, Francine Schoeters, Marc Gemis and Jan Van den Bussche.

Antwerp, June 15, 1988

Marc Gyssens
Jan Paredaens
Dirk Van Gucht

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