

Table of Contents

Invited Papers

Trust for Electronic Commerce Transactions.....	1
<i>Günther Pernul, Alexander W. Röhm, Gaby Herrmann</i>	
A Family of the ODMG Object Models	14
<i>Suad Alagč</i>	

Regular Papers

Integration

Consistent Handling of Integrity Constraints and Extensional Assertions for Schema Integration.....	31
<i>Can Türker, Gunter Saake</i>	
Deriving Type Conflicts and Object Cluster Similarities in Database Schemes by an Automatic and Semantic Approach.....	46
<i>Domenico Ursino</i>	

Information Retrieval & Multimedia

A Model for Querying Annotated Documents	61
<i>Frédérique Laforest, Anne Tchounikine</i>	
Word-Based Compression Methods and Indexing for Text Retrieval Systems.....	75
<i>Jiri Dvorský, Jaroslav Pokorný, Vaclav Snášel</i>	
Processing of Spatiotemporal Queries in Image Databases	85
<i>Theodoros Tzouramanis, Michael Vassilakopoulos, Yannis Manolopoulos</i>	

Transactions

On the Correctness of Virtual Partition Algorithm in a Nested Transaction Environment	98
<i>Sanjay Kumar Madria, S.N. Maheshwari, B. Chandra</i>	
Computing Rules for Detecting Contradictory Transaction Termination Dependencies	113
<i>Kerstin Schwarz, Can Türker, Gunter Saake</i>	
A New Class Hierarchy Concurrency Control Technique in Object-Oriented Database Systems.....	128
<i>Woochun Jun</i>	

Index-Structures

The G^r -Tree: The Use of Active Regions in G-Trees	141
<i>Dimitris G. Kapopoulos, Michael Hatzopoulos</i>	
S^* -Tree: An Improved S^+ -Tree for Coloured Images	156
<i>Enrico Nardelli, Guido Proietti</i>	

Agent Technology

Workflow Management System Using Mobile Agents	168
<i>Zoran Budimac, Mirjana Ivanović, Aleksandar Popović</i>	

Data Mining

Pattern-Oriented Hierarchical Clustering	179
<i>Tadeusz Morzy, Marek Wojciechowski, Maciej Zakrzewicz</i>	
Data Mining in a Multi-dimensional Environment	191
<i>Holger Günzel, Jens Albrecht, Wolfgang Lehner</i>	
Arbiter Meta-learning with Dynamic Selection of Classifiers and Its Experimental Investigation	205
<i>Alexey Tsymbal, Seppo Puuronen, Vagan Terziyan</i>	

Data Modeling

The Notion of 'Classes of a Path' in ER Schemas	218
<i>Junkang Feng, Malcolm Crowe</i>	
Evaluation of Data Modeling	232
<i>Ronald Maier</i>	
Organizational Modeling for Efficient Specification of Information Security Requirements	247
<i>Jussipekka Leiwo, Chandana Gamage, Yuliang Zheng</i>	

Incomplete Data

A Closed Approach to Vague Collections in Partly Inaccessible Distributed Databases	261
<i>Oliver Haase, Andreas Henrich</i>	
Infinite Relations in Paraconsistent Databases	275
<i>Nicholas Tran, Rajiv Bagai</i>	

Queries

Query Rewriting and Search in CROQUE.....	288
<i>Joachim Kröger, Regina Illner, Steffen Rost, Andreas Heuer</i>	
Object Query Optimization in the Stack-Based Approach.....	303
<i>Jacek Płodzień, Anna Kraken</i>	

Database Theory

Compositional Specification Calculus for Information Systems Development.....	317
<i>Leonid Kalinichenko</i>	

Performance Issues

The Impact of Using Class Inheritance in a Distributed Information System	332
<i>Patrick Dunne, Alex Gray</i>	
Performance Assessment Framework for Distributed Object Architectures	349
<i>Matjaž B. Jurič, Tatjana Welzer, Ivan Rozman, Marjan Heričko, Boštjan Brumen, Tomaž Domajnko, Aleš Živkovič</i>	
Efficient Use of Signatures in Object-Oriented Database Systems	367
<i>Kjetil Nørsvåg</i>	

Author Index	383
---------------------------	-----