

Table of Contents

Data Warehouse Design

Dynamic Data Warehouse Design <i>D. Theodoratos , T. Sellis; Greece.....</i>	1
Star/Snow-Flake Schema Driven Object-Relational Data Warehouse Design and Query Processing Strategies. <i>V. Gopalkrishnan, Q. Li, K. Karlapalem; Hong Kong.....</i>	11
The Design and Implementation of Modularized Wrappers/Monitors in a Data Warehouse <i>J.-T. Horng, J. Lu, B.-J. Liu. R.-D. Yang; Taiwan.....</i>	23
Managing Meta Objects for Design of Warehouse Data <i>T. Miura, W. Matsumoto, I. Shioya; Japan.....</i>	33

On-Line Analytical Processing

Dealing with Complex Reports in OLAP Applications <i>T. Ruf, J. Goerlich, I. Reinfels; Germany.....</i>	41
OLAP-based Scalable Profiling of Customer Behavior <i>Q. Chen, U. Dayal, M. Hsu; U.S.A.</i>	55
Compressed Datacubes for Fast OLAP Applications <i>F. Buccafurri, D. Rosaci, D. Saccá; Italy</i>	65
Compact Representation: An Approach to Efficient Implementation for the Data Warehouse Architecture <i>N. Kotsis, D.R. McGregor; U.K.</i>	78

View Maintenance, Selection and Optimisation

On the Independence of Data Warehouse from Databases in Maintaining Join Views <i>W. Lee; Korea</i>	86
Heuristic Algorithms for Designing a Data Warehouse with SPJ Views <i>S. Ligoudistianos, T. Sellis, D. Theodoratos, Y. Vassiliou; Greece</i>	96
POSSE: A Framework for Optimizing Incremental View Maintenance at Data Warehouses <i>K. O'Gorman, D. Agrawal, A. El Abbadi; U.S.A.</i>	106

Genetic Algorithm for Materialized View Selection in Data Warehouse Environments <i>Ch. Zhang, J. Yang; Australia</i>	116
Optimization of Sequences of Relational Queries in Decision-Support Environments <i>A. Badia, M. Niehues; U.S.A.</i>	126

Invited Talk

Dynamic Data Warehousing <i>U. Dayal, Q. Chen, M. Hsu; U.S.A.</i>	132
--	-----

Multidimensional Databases

Set-Derivability of Multidimensional Aggregates <i>J. Albrecht, H. Günzel, W. Lehner; Germany, U.S.A.</i>	133
Using the Real Dimension of the Data <i>Ch. Zirkelbach; Germany</i>	143
On Schema Evolution in Multidimensional Databases <i>M. Blaschka, C. Sapia, G. Höfling; Germany</i>	153
Lazy Aggregates for Real-Time OLAP <i>J. Kiviniemi, A. Wolski, A. Pesonen, J. Arminen; Finland</i>	165

Knowledge Discovery

Incremental Refinement of Mining Queries <i>E. Baralis, G. Psaila; Italy</i>	173
The Item-Set Tree: A Data Structure for Data Mining <i>A. Hafez, J. Deogun, V.V. Raghavan; U.S.A.</i>	183
A New Approach for the Discovery of Frequent Itemsets <i>R. Meo; Italy</i>	193
K-means Clustering Algorithm for Categorical Attributes <i>S.K. Gupta, K.S. Rao, V. Bhatnagar; India</i>	203

Association Rules

Considering Main Memory in Mining Association Rules <i>Y. Xiao, M. H. Dunham; U.S.A.</i>	209
---	-----

Discovery of Association Rule Meta-Patterns <i>G. Psaila; Italy</i>	219
--	-----

Fuzzy Functional Dependencies and Fuzzy Association Rules <i>Y. Yang, M. Singhal; U.S.A.</i>	229
---	-----

Performance Evaluation and Optimization of Join Queries for Association Rule Mining <i>S. Thomas, S. Chakravarthy; U.S.A.</i>	241
--	-----

Indexing and Object Similarities

Efficient Bulk Loading of Large High-Dimensional Indexes <i>Ch. Böhm, H.-P. Kriegel; Germany</i>	251
---	-----

Implementation of Multidimensional Index Structures for Knowledge Discovery in Relational Databases <i>St. Berchtold, Ch. Böhm, H.-P. Kriegel, U. Michel; Germany</i>	261
--	-----

Similarity between Event Types in Sequences <i>H. Mannila, P. Moen; U.S.A., Finland</i>	271
--	-----

Generalised Association Rules and Data & Web Mining

Mining Generalized Association Rule Using Parallel RDB Engine on PC Cluster <i>I. Pramudiono, T. Shintani, T. Tamura, M. Kitsuregawa; Japan</i>	281
--	-----

Modeling KDD Processes within the Inductive Database Framework <i>J.-F. Boulicaut, M. Klemettinen, H. Mannila; France, Finland</i>	293
---	-----

Research Issues in Web Data Mining <i>S.K. Madria, S. Bhowmick, W.-K. Ng, E.-P. Lim; USA, Singapore</i>	303
--	-----

DAMISYS: An Overview <i>M.C. Fernández, O. Delgado, J.I. López, M.A. Luna, J.F. Martínez, J.F.B. Pardo, J.M. Peña; Spain</i>	313
---	-----

Time Series Databases

Mining Interval Time Series <i>R. Villafane, K.A. Hua, D. Tran, B. Maulik; U.S.A.</i>	318
--	-----

A New Modeling Technique Based on Markov Chains to Mine Behavioral Patterns in Event Based Time Series <i>S. Massa, M. Paolucci, P.P. Puliafito; Italy</i>	331
SQL/LPP+: A Cascading Query Language for Temporal Correlation Verification <i>C.-S. Perng, D.S. Parker; U.S.A.</i>	343
Temporal Structures in Data Warehousing <i>P. Chamoni, St. Stock; Germany</i>	353
Data Mining Applications and Data Analysis	
Target Group Selection in Retail Banking through Neuro-Fuzzy Data Mining and Extensive Pre- and Postprocessing <i>T. Wittmann, J. Ruhland; Germany</i>	359
Using Data Mining Techniques in Fiscal Fraud Detection <i>F. Bonchi, F. Giannotti, G. Mainetto, D. Pedreschi; Italy</i>	369
Analysis of Accuracy of Data Reduction Techniques <i>P. Furtado, H. Madeira; Portugal</i>	377
Data Swapping: Balancing Privacy against Precision in Mining for Logic Rules <i>V. Estivill-Castro , L. Brankovic; Australia</i>	389
Author Index	399



<http://www.springer.com/978-3-540-66458-1>

Data Warehousing and Knowledge Discovery
First International Conference, DaWaK'99 Florence,
Italy, August 30 - September 1, 1999 Proceedings
Mohania, M.; Tjoa, A.M. (Eds.)
1999, XII, 408 p., Softcover
ISBN: 978-3-540-66458-1