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## Process Model Meta-models

Business Process Meta-model Ontology Meta-model; Mapping Process Model and Ontology Meta-models; Type-Based Mapping Rules; Semantics Based Mapping Rules; Application to the Example; Conclusion; References; Optimization of Object-Oriented Queries through Pushing Selections; Introduction; Main Concepts of the Stack-Based Approach (SBA); Optimization Methods; Conclusions; References; On Parallel Sorting of Data Streams; Introduction; Bobox; Parallel Sorting Algorithm; Results; Conclusion; References; Mining Association Rules from Database Tables with the Instances of Simpson's Paradox Introduction Association Rules; Simpson's Paradox; Problem Statement; Influence of Simpson's Paradox on the Applicability of Association Rules; Context-Aware Selection of Association Rules; Case Studies; Conclusions; References; Synchronization Modeling in Stream Processing; Introduction; Basic Terms; Basic Approach; Estimation of Synchronization Impact; Average Latency; Tests; Conclusions; References; Towards Automated Enterprise Architecture Documentation: Data Quality Aspects of SAP PI; Introduction and Motivation; Related Work  
SAP PI Data Quality Assessment: Evaluation of the Survey Results Effects on the EA Model Quality; Conclusion and Outlook; References; Two-Stage Stochastic View Selection for Data-Analysis Queries; Introduction; Preliminaries; The Two-Stage Stochastic View-Selection Problem; Solving the Problem; Concluding Remarks; References; Choosing Values for Text Fields in Web Forms; Introduction; Definitions; Related Work; Automatic Filling of Web Forms; Experiments; Conclusion and Future Work; References; A Relative Feature Selection Algorithm for Graph Classification; Introduction; Preliminary  
Related Works

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### Sommario/riassunto

This volume is the second one of the 16th East-European Conference on Advances in Databases and Information Systems (ADBIS 2012), held on September 18-21, 2012, in Pozna, Poland. The first one has been published in the LNCS series. This volume includes 27 research contributions, selected out of 90. The contributions cover a wide spectrum of topics in the database and information systems field, including: database foundation and theory, data modeling and database design, business process modeling, query optimization in relational and object databases, materialized view selection algorithms, index data structures, distributed systems, system and data integration, semi-structured data and databases, semantic data management, information retrieval, data mining techniques, data stream processing, trust and reputation in the Internet, and social networks. Thus, the content of this volume covers the research areas from fundamentals of databases, through still hot topic research problems (e.g., data mining, XML data processing), to novel research areas (e.g., social networks, trust and reputation, and data stream processing). The editors of this volume believe that its content will inspire the researchers with new ideas for future development. It may also serve as an overview of the ongoing work in the field of databases and information systems.

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