

Preface

The present book includes extended and revised versions of a set of selected papers from the 5th International Conference on Data Management Technologies and Applications (DATA 2016), held in Lisbon, Portugal, during July 24–26, 2016.

We received 50 paper submissions from 26 countries, of which 18% are included in this book. The papers were selected by the event chairs and their selection is based on a number of criteria that include the classifications and comments provided by the Program Committee members, the session chairs' assessment, and also the program chairs' global view of all papers included in the technical program. The authors of selected papers were then invited to submit a revised and extended version of their papers having at least 30% innovative material.

The 5th International Conference on Data Management Technologies and Applications (DATA) aims to bring together researchers, engineers and practitioners interested in databases, data warehousing, data mining, data management, data security and other aspects of information systems and technology involving advanced applications of data.

The papers selected to be included in this book contribute to the understanding of relevant trends of current research on business analytics, data management and quality, ontologies and the Semantic Web, and databases and data security. They substantially contribute to the literature by providing interesting use cases, demonstrating the application of modern big data design and management techniques. The interdisciplinary approach of the DATA conference is a fundamental enabler of this scientific contribution. Particularly, the ability to attract both academics and practitioners and a focus on technology application represent important drivers of the practical consequence of the papers published in this book. The papers address a range of specific topics including: data consistency on agnostic fault-tolerant systems, improving performances of an embedded relational database management system, visual citation tracing, efficient multi-domain data processing, pay-as-you-go data quality management, real-time analytics of streaming data, computation of belief combination rules, identifying conversational message threads, and ETL processes specification using a pattern-based ontology. Overall, they provide an overview of the state of the art, with a focus on data and on their impact on business processes. Organizational policies, technical choices, and economic benefits from the exploitation of modern technologies are largely addressed by the papers published in this book, with a broad set of references to the most useful literature on the subject.

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