Nosql And Sql Data Modeling Bringing Together Data Semantics And Software

Journal on Data Semantics XIJournal on Data Semantics VIIJournal on Data Semantics VIJournal on Data Semantics IVSemantic Modeling for DataGeoinformaticsProcess-oriented Semantic Web SearchJournal on Data Semantics XIVJournal on Data Semantics XIIIJournal on Data Semantics VIIJournal on Data Semantics XVProceedings of the 1999 ACM SIGMOD International Conference on Management of DataJournal on Data Semantics IJournal on Data Semantics XIProceedings of the 19th International Conference on Very Large Data BasesJournal on Data Semantics XIIJournal on Data Semantics XEncyclopedia of data warehousing and miningThe Entity-relationship ModelData Resource Quality Jeff Z. Pan Stefano Spaccapietra Karl Aberer Stefano Spaccapietra Panos Alexopoulos A. Krishna Sinha D.T. Tran Stefano Spaccapietra Stefano Spaccapietra Stefano Spaccapietra Alex Delis Stefano Spaccapietra Philippe Thiran Rakesh Agrawal John Wang Shih-Fen Yang Michael H. Brackett

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papers were invited based on their quality relevance and significance and the ability of extending their results extended versions prepared by authors were subject to the

traditional two round scholarly review process and the authors were required to respond to all concerns expressed by the reviewers before papers were accepted eight papers were eventually accepted for publication in this issue the selection of swese best papers eventually resulted in the acceptance of two papers the first paper experiences in the design of semantic services using en neering methods and tools by brambilla ceri celino cerizza della valle facca turati and tzviskou shows how classical software engineering methods such as formal business process development and automatic code generation combine with semantic methods and tools i e ontology engineering semantic service annotation and discovery to forge a new approach to software development for the semantic in the paper the authors present their experience in the participation to the mantic service challenge 2006 where the proposed approach achieved very good results in solving the proposed problems the second paper automatically generated model transformations using ont ogy engineering space by roser and bauer presents an approach to using the mantic technologies to improve cross organizational modeling by automated gene tion of model transformations by automated generation of mappings it offers new possibilities for the integration of domain specific languages and legacy models in a plug play manner making it easier for new organizations to join collaborations

the lncs journal on data semantics is devoted to the presentation of notable work that in one way or another addresses research and development on issues related to data semantics the scope of the journal ranges from theories supporting the formal definition of semantic content to innovative domain specific applications of semantic knowledge

the lncs journal on data semantics is devoted to the presentation of notable work that in one way or another addresses research and development on issues related to data semantics based on the highly visible publication platform lecture notes in computer science this new journal is widely disseminated and available worldwide the scope of the journal ranges from theories supporting the formal definition of semantic content to innovative domain specific applications of semantic knowledge the journal addresses researchers and advanced practitioners working on the semantic web interoperability mobile information services data warehousing knowledge representation and reasoning conceptual database modeling ontologies and artificial intelligence

semantics in data visualization semantic services for mobile users supporting tools applications of semantic driven approaches these topics are to be understood as specifically related to semantic issues contributions submitted to the journal and dealing with semantics of data will be considered even if they are not within the topics in the list while the physical appearance of the journal issues is like the books from the we known springer lncs series the mode of operation is that of a journal contributions can be freely submitted by authors and are reviewed by the editorial board contributions may also be invited and nevertheless carefully reviewed as in the case for issues that contain extended versions of the best papers from major conferences addressing data semantics issues special issues focusing on a specific topic are coordinated by guest editors once the proposal for a special issue is accepted by the editorial board finally it is also possible that a journal issue be devoted to a single text

what value does semantic data modeling offer as an information architect or data science professional let s say you have an abundance of the right data and the technology to extract business gold but you still fail the reason bad data semantics in this practical and comprehensive field guide author panos alexopoulos takes you on an eye opening journey through semantic data modeling as applied in the real world you II learn how to master this craft to increase the usability and value of your data and applications you II also explore the pitfalls to avoid and dilemmas to overcome for building high quality and valuable semantic representations of data understand the fundamental concepts phenomena and processes related to semantic data modeling examine the quirks and challenges of semantic data modeling and learn how to effectively leverage the available frameworks and tools avoid mistakes and bad practices that can undermine your efforts to create good data models learn about model development dilemmas including representation expressiveness and content development and governance organize and execute semantic data initiatives in your organization tackling technical strategic and organizational challenges

the science of informatics in the broadest sense has been several thousands of years in the making with the recent emergence of large storage devices and high speed processing of data it has become possible to organize vast amounts of data as digital products with ontologic tags and concepts for smart queries coupling this computational capability with earth science data defines the emerging field of geoinformatics since the science of geology was established several centuries ago

observations led to conclusions that were integrative in concept and clearly had profound implications for the birth of geology as disciplinary information about earth becomes more voluminous the use of geoinformatics will lead to integrative science based discoveries of new knowledge about planetary systems twenty one research papers co authored by 96 researchers from both earth and computer sciences provide the first ever organized presentation of the science of informatics as it relates to geology readers will readily recognize the vast intellectual content represented by these papers as they seek to address the core research goals of geoinformatics publisher s website

the book is composed of two main parts the first part is a general study of semantic search the second part specifically focuses on the use of semantics throughout the search process compiling a big picture of process oriented semantic search from different pieces of work that target specific aspects of the process in particular this book provides a rigorous account of the concepts and technologies proposed for searching resources and semantic data on the semantic to collate the various approaches and to better understand what the notion of semantic search entails this book presents a general semantic search model with respect to this model the book provides a comprehensive discussion of the state of the art it elaborates on approaches for crawling managing and searching semantic resources as well as the various schemes proposed for ranking search results besides these specific approaches search is also studied in a general multi data source scenario this shall demonstrate how this work on search is extended and applied to the setting a major feature of the book is that it considers search and the use of semantics for search also from a process point of view extending the general model the book introduces the notion of process oriented semantic search where semantics is exploited throughout the entire search process from query construction to query processing up to result presentation and query refinement specific pieces of work targeting these individual steps of the process are combined to form a coherent and consistent picture of process oriented semantic search in order to convey this general notion as well as the specific concepts and technologies developed for supporting the search process this book presents a compilation of work called semsearchpro and provides detailed descriptions on the underlying approaches

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in one way or another addresses research and development on issues related to data semantics the scope of the journal ranges from theories supporting the formal definition of semantic content to innovative domain specific applications of semantic knowledge the journal addresses researchers and advanced practitioners working on the semantic web interoperability mobile information services data warehousing knowledge representation and reasoning conceptual database modeling ontologies and artificial intelligence volume xiv results from a rigorous selection among 21 full papers received in response to a call for contributions issued in september 2008

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this book constitutes the rst volume of the rst journal in the new lncs jo nalsubline

thejournal ondatasemantics publishing a journal in abook series might come as a surprise to customers readers and librarians thus we would like to provide some background information and our motivation for introducing this new lncs subline as a consequence of the very tight interaction between the lecture notes in computerscienceseriesandtheinternationalcomputerscienceresearchand velopment community we receive quite a few proposals for new archive journals from the successful launch of workshops or conferences and publication of their proceedings in the lncs series it might seem like a natural step to approach the publisher about launching a journal once this speci c eld has gained a c tain level of maturity and stability each year we receive about a dozen such proposals and even more informal inquiries like other publishers it has been our experience that launching a new jo nal and making it a long term success is a hard job nowadays due to a generally di cult market situation and library budget restrictions in particular because many of the proceedings in lncs and especially many of the lncs postp ceedings apply the same strict reviewing and selection criteria as established journals we started discussing with proposers of new journals the alternative of devoting a few volumes in lncs to their eld instead of going through the painful sisyphean adventure of establishing a new journal on its own

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semantic caching data warehousing and semantic data mining spatial temporal multimedia and multimodal semantics semantics in data visualization semantic services for mobile users supporting tools applications of semantic driven approaches these topics are to be understood as specifically related to semantic issues contributions submitted to the journal and dealing with semantics of data will be

considered even if they are not from the topics in the list while the physical appearance of the journal issues is like the books from the well known springer Incs series the mode of operation is that of a journal contributions can be freely submitted by authors and are reviewed by the editorial board contributions may also be invited and nevertheless carefully reviewed as in the case for issues that contain extended versions of the best papers from major conferences addressing data semantics issues special issues focusing on a specific topic are coordinated by guest editors once the proposal for a special issue is accepted by the editorial board finally it is also possible that a journal issue be devoted to a single text the editorial board comprises an editor in chief with overall responsibility a coeditor in chief and several members the editor in chief has a four year mandate members of the board have a three year mandate mandates are renewable and new members may be elected at any time we are happy to welcome you to our readership and authorship and hope we will share this privileged contact for a long time

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covering both data architecture and data management issues the book describes the impact of poor data practices demonstrates more effective approaches and reveals implementation pointers for quick results jacket

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