

Bitemporal Data

THEORY AND PRACTICE



Bitemporal Data Theory And Practice

Thomas Ott, Frank Swiaczny



Bitemporal Data Theory And Practice:

Bitemporal Data Tom Johnston, 2014-08-19 Bitemporal data has always been important But it was not until 2011 that the ISO released a SQL standard that supported it Currently among major DBMS vendors Oracle IBM and Teradata now provide at least some bitemporal functionality in their flagship products But to use these products effectively someone in your IT organization needs to know more than how to code bitemporal SQL statements Perhaps in your organization that person is you To correctly interpret business requests for temporal data to correctly specify requirements to your IT development staff and to correctly design bitemporal databases and applications someone in your enterprise needs a deep understanding of both the theory and the practice of managing bitemporal data Someone also needs to understand what the future may bring in the way of additional temporal functionality so their enterprise can plan for it Perhaps in your organization that person is you This is the book that will show the do it yourself IT professional how to design and build bitemporal databases and how to write bitemporal transactions and queries and will show those who will direct the use of vendor provided bitemporal DBMSs exactly what is going on under the covers of that software Explains the business value of bitemporal data in terms of the information that can be provided by bitemporal tables and not by any other form of temporal data including history tables version tables snapshot tables or slowly changing dimensions Provides an integrated account of the mathematics logic ontology and semantics of relational theory and relational databases in terms of which current relational theory and practice can be seen as unnecessarily constrained to the management of nontemporal and incompletely temporal data Explains how bitemporal tables can provide the time variance and nonvolatility hitherto lacking in Inmon historical data warehouses Explains how bitemporal dimensions can replace slowly changing dimensions in Kimball star schemas and why they should do so Describes several extensions to the current theory and practice of bitemporal data including the use of episodes whenever temporal transactions and queries and future transaction time Points out a basic error in the ISO's bitemporal SQL standard and warns practitioners against the use of that faulty functionality Recommends six extensions to the ISO standard which will increase the business value of bitemporal data Points towards a tritemporal future for bitemporal data in which an Aristotelian ontology and a speech act semantics support the direct management of the statements inscribed in the rows of relational tables and add the ability to track the provenance of database content to existing bitemporal databases This book also provides the background needed to become a business ontologist and explains why an IT data management person deeply familiar with corporate databases is best suited to play that role Perhaps in your organization that person is you

Domain-Specific Languages in Practice Antonio Bucchiarone, Antonio Cicchetti, Federico Ciccozzi, Alfonso Pierantonio, 2021-06-24 This book covers several topics related to domain specific language DSL engineering in general and how they can be handled by means of the JetBrains Meta Programming System MPS an open source language workbench developed by JetBrains over the last 15 years The book begins with an overview of

the domain of language workbenches which provides perspectives and motivations underpinning the creation of MPS Moreover technical details of the language underneath MPS together with the definition of the tool s main features are discussed The remaining ten chapters are then organized in three parts each dedicated to a specific aspect of the topic Part I MPS in Industrial Applications deals with the challenges and inadequacies of general purpose languages used in companies as opposed to the reasons why DSLs are essential together with their benefits and efficiency and summarizes lessons learnt by using MPS Part II about MPS in Research Projects covers the benefits of text based languages the design and development of gamification applications and research fields with generally low expertise in language engineering Eventually Part III focuses on Teaching and Learning with MPS by discussing the organization of both commercial and academic courses on MPS MPS is used to implement languages for real world use Its distinguishing feature is projectional editing which supports practically unlimited language extension and composition possibilities as well as a flexible mix of a wide range of textual tabular mathematical and graphical notations The number and diversity of the presented use cases demonstrate the strength and malleability of the DSLs defined using MPS The selected contributions represent the current state of the art and practice in using JetBrains MPS to implement languages for real world applications

Provenance and Annotation of Data and Processes Khalid Belhajjame,Ashish Gehani,Pinar Alper,2018-09-05 This book constitutes the refereed proceedings of the 7th International Provenance and Annotation Workshop IPAW 2018 held in London UK in July 2018 The 12 revised full papers 19 poster papers and 2 demonstration papers presented were carefully reviewed and selected from 50 submissions The papers feature a variety of provenance related topics ranging from the capture and inference of provenance to its use and application They are organized in topical sections on reproducibility modeling simulating and capturing provenance PROV extensions scientific workflows applications and system demonstrations

SOFSEM 2008: Theory and Practice of Computer Science Villiam Geffert,Juhani Karhumäki,Alberto Bertoni,Bart Preneel,Pavol Návrat,Mária Bieliková,2008-01-06 This book constitutes the refereed proceedings of the 34th Conference on Current Trends in Theory and Practice of Computer Science SOFSEM 2008 held in Slovakia in 2008 The 57 revised full papers presented together with 10 invited contributions were carefully reviewed and selected from 162 submissions The contributions are segmented into four topical sections on foundations of computer science computing by nature networks security and cryptography and Web technologies

Advances in Conceptual Modeling - Theory and Practice John F. Roddick,2006-10-24 This book constitutes the refereed joint proceedings of seven international workshops held in conjunction with the 25th International Conference on Conceptual Modeling ER 2006 in Tucson AZ USA in November 2006 The 39 revised full papers presented together with the outlines of three tutorials were carefully reviewed and selected from 95 submissions

SOFSEM '97: Theory and Practice of Informatics Frantisek Plasil,1997-11-05 This book constitutes the refereed proceedings of the 24th Seminar on Current Trends in Theory and Practice of Informatics SOFSEM 97 held in Milovy Czech Republic in November 1997 SOFSEM

is special in being a mix of a winter school an international conference and an advanced workshop meeting the demand for ongoing education in the area of computer science The volume presents 22 invited contributions by leading experts together with 24 revised contributed papers selected from 63 submissions The invited presentations are organized in topical sections on foundations distributed and parallel computing software engineering and methodology and databases and information systems

Time-Integrative Geographic Information Systems Thomas Ott, Frank Swiaczny, 2012-12-06 The book deals with the integration of temporal information in Geographic Information Systems The main purpose of an historical or time integrative GIS is to reproduce spatio temporal processes or sequents of events in the real world in the form of a model The model thus making them accessible for spatial query analysis and visualization This volume reflects both theoretical thoughts on the interrelations of space and time as well as practical examples taken from various fields of application e g business data warehousing demographics history and spatial analysis

Theory and Practice of Model Transformation Arend Rensink, Jesús Sánchez Cuadrado, 2018-06-18 This book constitutes the refereed proceedings of the 11th International Conference on Model Transformation ICMT 2018 held as part of STAF 2018 in Toulouse France in June 2018 The 9 full papers were carefully reviewed and selected from 24 submissions This book also presents 1 invited paper The papers include research application and tool demonstration papers presented in the context of four sessions on verification of model transformations model transformation tools transformation reuse and graph transformations

Progress in Intelligent Computing Techniques: Theory, Practice, and Applications Pankaj Kumar Sa, Manmath Narayan Sahoo, M. Murugappan, Yulei Wu, Banshidhar Majhi, 2017-07-12 The book focuses on both theory and applications in the broad areas of communication technology computer science and information security This two volume book contains the Proceedings of 4th International Conference on Advanced Computing Networking and Informatics This book brings together academic scientists professors research scholars and students to share and disseminate information on knowledge and scientific research works related to computing networking and informatics to discuss the practical challenges encountered and the solutions adopted The book also promotes translation of basic research into applied investigation and convert applied investigation into practice

Agile Business Intelligence Stephan Trahasch, Michael Zimmer, 2016-01-12 Agile Methoden und Vorgehensweisen werden heute auch in BI Projekten erfolgreich und gewinnbringend eingesetzt Dabei steht eine ganze Reihe unterschiedlicher Ansätze zur Steigerung der BI Agilität zur Verfügung Entscheidend für den Erfolg ist die ganzheitliche Betrachtung von BI Architekturen Organisationsformen Technologien und an BI angepasste agile Vorgehensmodelle Die Autoren erläutern in diesem Buch Agile Business Intelligence indem sie zunächst BI Agilität mithilfe eines Ordnungsrahmens definieren und strukturieren Auf diesen Grundlagen aufbauend zeigen sie anhand von konkreten Fallstudien wie Agilität in BI Projekten umgesetzt werden kann Hierbei handelt es sich beispielsweise um die Durchführung agiler Projekte zum Aufbau eines Data Warehouse oder um die Umsetzung von Sandboxes auf Basis von In Memory Technologien Behandelt werden im

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