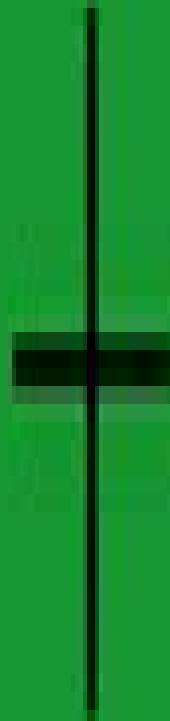
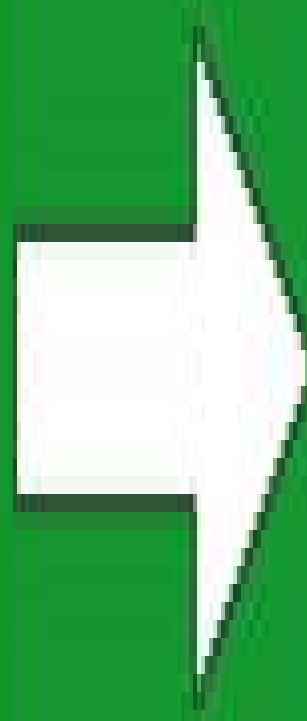


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# Database Semantics Database Semantics

**Zahir Tari, Scott Stevens**



## **Database Semantics Database Semantics:**

*Database Semantics* Zahir Tari, Scott Stevens, 1998-12-31 *Database Semantics Semantic Issues in Multimedia Systems* reflects the state of the art of emerging research on the meaning of multimedia information as presented during IFIP's Eighth Data Semantics Working Conference DS 8 organized by its Working Group 2.6 on Databases and held at Rotorua New Zealand in January 1999. DS 8 was planned as an active forum for researchers and practitioners focusing on those issues that involve the semantics of the information represented, stored and manipulated by multimedia systems. Depending on the topic and state of research, issues may be covered either deeply theoretically or quite practically or even both. These proceedings contain twenty-one papers carefully selected by an International Programme Committee and organized in six thematic areas: Video Data Modelling and Use, Image Databases, Applications of Multimedia Systems, Multimedia Modeling in General, Multimedia Information Retrieval, Semantics and Metadata. For almost every area, important topics and issues include data modeling and query languages for media such as audio, video and images; methodological aspects of multimedia database design; intelligent multimedia information retrieval; knowledge discovery and data mining in multimedia information multimedia user interfaces. Three visionary keynote addresses by famous experts: Ramesh Jain, Hermann Maurer and Masao Sakauchi set the stage for discussion and future directions for the field. The collection of papers that resulted now offers a glimpse of the excitement and enthusiasm from DS 8. *Database Semantics Semantic Issues in Multimedia Systems* is suitable as a secondary text for a graduate level course on database systems, multimedia systems or information retrieval systems and as a reference for practitioners and researchers in industry.

**Semantics in Databases** Bernhard Thalheim, Leonid Libkin, 1998-02-25 This book presents a coherent survey on exciting developments in database semantics. The origins of the volume date back to a workshop held in Prague, Czech Republic in 1995. The nine revised full papers and surveys presented were carefully reviewed for inclusion in the book. They address more traditional aspects like dealing with integrity constraints and conceptual modeling as well as new areas of databases: object orientation, incomplete information, database transformations and other issues are investigated by applying formal semantics, e.g. the evolving algebra semantics.

Semantics in Databases Leopoldo Bertossi, Gyula O.H. Katona, Klaus-Dieter Schewe, Bernhard Thalheim, 2003-04-07 This book constitutes the thoroughly refereed post-proceedings of the Second International Workshop on Semantics in Databases held in Dagstuhl Castle, Germany in January 2001. The 10 revised full papers presented together with an introduction by the volume editors were carefully selected during two rounds of reviewing. Among the aspects of database semantics discussed are semantic constraints, paraconsistency, logic foundations of databases, ER modeling, type hierarchies, null values, consistency enforcement, logic-based pattern languages and semantic classification of queries. Among the classes of databases dealt with are deductive databases, relational databases, distributed information systems and tree-structured data.

Data with Semantics J. Patrick Thompson, 1989 This highly readable book uniquely employs cutting-edge semantic data

model technology to explain the hows and whys of designing and administering a database

**Database Semantics** Zahir Tari, Scott Stevens, 2013-04-17 Database Semantics Semantic Issues in Multimedia Systems reflects the state of the art of emerging research on the meaning of multimedia information as presented during IFIP's Eighth Data Semantics Working Conference DS 8 organized by its Working Group 2.6 on Databases and held at Rotorua New Zealand in January 1999. DS 8 was planned as an active forum for researchers and practitioners focusing on those issues that involve the semantics of the information represented, stored and manipulated by multimedia systems. Depending on the topic and state of research issues may be covered either deeply theoretically or quite practically or even both. These proceedings contain twenty-one papers carefully selected by an International Programme Committee and organized in six thematic areas: Video Data Modelling and Use, Image Databases, Applications of Multimedia Systems, Multimedia Modeling in General, Multimedia Information Retrieval, Semantics and Metadata. For almost every area, important topics and issues include data modeling and query languages for media such as audio, video and images; methodological aspects of multimedia database design; intelligent multimedia information retrieval; knowledge discovery and data mining in multimedia information; multimedia user interfaces. Three visionary keynote addresses by famous experts: Ramesh Jain, Hermann Maurer and Masao Sakauchi set the stage for discussion and future directions for the field. The collection of papers that resulted now offers a glimpse of the excitement and enthusiasm from DS 8. Database Semantics Semantic Issues in Multimedia Systems is suitable as a secondary text for a graduate-level course on database systems, multimedia systems or information retrieval systems and as a reference for practitioners and researchers in industry.

**Foundations of Semantic Databases** Bert de Brock, 1995 Providing a comprehensive theory of data modelling, this book explains the important concepts and principles with real-life examples showing how to apply it directly in practical applications. Topics covered include a wide variety of functional requirements and query specification capabilities; a formal treatment of the semantics of the data; static and dynamic constraints and business rules; operations on tables, databases and database universes; data dictionaries and their semantics and comparisons of incidental properties and structural properties throughout the book. The book is aimed at professional database users such as designers, administrators and programmers as well as specialists involved in data processing.

**Database Design** Naphtali Rish, 1992 This book covers the broad field of database design from the perspective of semantic modeling. Aimed at present and future designers of database applications, software engineers, systems analysts and programmers, it aims to offer a unified study of semantic relational network and hierarchical databases as seen through the semantic modeling approach. The book provides a structured top-down methodology of database design in all the models and presents the principal types of database languages.

**Semantics of a Networked World. Semantics for Grid Databases** Mokrane Bouzeghoub, Carole Goble, Vipul Kashyap, Stefano Spaccapietra, 2004-10-14 The explosion in data exchange fostered by the success of the Web has restated semantics as a kernel issue in the development of services providing data and

formation to users and applications worldwide. This newly designated conference series on Semantics for the Networked World unifies into a single framework the previous series on Database Semantics and Visual Database Systems that the IFIP WG 2.6 has been organizing since 1985. Whereas the intent of the conference series is to explore interesting research issues related to semantics, the theme for the 2004 edition is Semantics for Grid Databases. Grid computing, a new field concentrating on flexible secure coordinated resource sharing among dynamic collections of individuals, institutions, and resources also referred to as virtual organizations, has gathered momentum in the context of providing shared infrastructures for large scale scientific computations and data analysis. Similarly, P2P computing has attracted substantial attention. Currently, attention is devoted to the provision of middleware services to make computational resources interoperable at the technical level and to increase the efficiency of use of physical resources. However, as Grid and P2P computing infrastructures are being increasingly adopted, they are likely to have typical problems of information overload that manifest themselves in any large scale infrastructure for information and application sharing, e.g., the WWW. The need for resource discovery, application and service interoperability, integration, and composition manifest themselves in these infrastructures. The ability to interoperate at the semantic level will largely determine the continued success and utilization of these infrastructures.

### **Semantic Web and Databases**

Christoph Bussler, Val Tannen, 2005-02-16. This book constitutes the thoroughly refereed postproceedings of the Second International Workshop on Semantic Web and Databases SWDB 2004 held in Toronto, Canada, in August 2004 as a satellite workshop of VLDB 2004. The 14 revised full papers presented together with 2 papers by the invited keynote speakers were carefully selected during two rounds of reviewing and improvement from 47 submissions. Among the topics addressed are data semantics, semantic Web services, service oriented computing, workflow composition, XML semantics, relational tables, ontologies, semantic Web algebra, heterogeneous data sources, context mediation, OWL ontology engineering, data integration, semantic Web queries, database queries, and peer to peer warehouses.

### **Semantics in Databases**

Bernhard Thalheim, Leonid Libkin, 2014-01-15. **Data Mining and Reverse Engineering**. Stefano Spaccapietra, Fred M. Maryanski, 2013-03-14. Searching for Semantics. Data Mining. Reverse Engineering. Stefano Spaccapietra, Fred M. Maryanski. Swiss Federal Institute of Technology, University of Connecticut, Lausanne, Switzerland, Storrs, CT, USA. **REVIEW AND FUTURE DIRECTIONS**. In the last few years, database semantics research has turned sharply from a highly theoretical domain to one with more focus on practical aspects. The DS 7 Working Conference held in October 1997 in Leysin, Switzerland, demonstrated the more pragmatic orientation of the current generation of leading researchers. The papers presented at the meeting emphasized the two major areas: the discovery of semantics and semantic data modeling. The work in the latter category indicates that although object oriented database management systems have emerged as commercially viable products, many fundamental modeling issues require further investigation. Today's object oriented systems provide the capability to describe complex objects and include techniques for mapping from a relational database to objects. However, we must further explore

the expression of information regarding the dimensions of time and space Semantic models possess the richness to describe systems containing spatial and temporal data The challenge of incorporating these features in a manner that promotes efficient manipulation by the subject specialist still requires extensive development

**Journal on Data Semantics XIII**  
Stefano Spaccapietra, Esteban Zimányi, Il-Yeol Song, 2009-07-10 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 This volume constitutes a special issue on semantic data warehouses

**The Semantic Web** Vipul Kashyap, Christoph Bussler, Matthew Moran, 2008-09-27 The Semantic Web is a vision the idea of having data on the Web defined and linked in such a way that it can be used by machines not just for display purposes but for automation integration and reuse of data across various applications However there is a widespread misconception that the Semantic Web is a rehash of existing AI and database work Kashyap Bussler and Moran dispel this notion by presenting the multi disciplinary technological underpinnings such as machine learning information retrieval service oriented architectures and grid computing Thus they combine the informational and computational aspects needed to realize the full potential of the Semantic Web vision

Semantic Modeling for Data Panos Alexopoulos, 2020-08-19 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 ll learn how to master this craft to increase the usability and value of your data and applications You ll 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

**Semantics Empowered Web 3.0** Amit Sheth, Krishnaprasad Thirunarayan, 2022-05-31 After the traditional document centric Web 1.0 and user generated content focused Web 2.0 Web 3.0 has become a repository of an ever growing variety of Web resources that include data and services associated with enterprises social networks sensors cloud as well as mobile and other devices that constitute the Internet of Things These pose unprecedented challenges in terms of heterogeneity variety scale volume and continuous changes velocity as well as present corresponding opportunities if they can be exploited Just as semantics has played a critical role in dealing with data heterogeneity in the past to provide interoperability and integration it is playing an even more critical role in dealing with the challenges and helping users and applications exploit all forms of Web 3.0 data

This book presents a unified approach to harness and exploit all forms of contemporary Web resources using the core principles of ability to associate meaning with data through conceptual or domain models and semantic descriptions including annotations and through advanced semantic techniques for search integration and analysis It discusses the use of Semantic Web standards and techniques when appropriate but also advocates the use of lighter weight easier to use and more scalable options when they are more suitable The authors extensive experience spanning research and prototypes to development of operational applications and commercial technologies and products guide the treatment of the material Table of Contents Role of Semantics and Metadata Types and Models of Semantics Annotation Adding Semantics to Data Semantics for Enterprise Data Semantics for Services Semantics for Sensor Data Semantics for Social Data Semantics for Cloud Computing Semantics for Advanced Applications **Database Applications Semantics** L. Mark, 2016-01-09 The number of new applications in need of database support is exploding and there is an increasing need to link and access database systems supporting these new applications via computer networks End users and non computer experts are becoming heavily involved in the set up management and use of database systems and this book provides the important database design methodologies and implementation technology which should be available for them as well as for computer experts

**Journal on Data Semantics XI** Philippe Thiran, Jeff Z. Pan, Stefano Spaccapietra, Steffen Staab, Terry Halpin, Pavel Shvaiko, Vojtech Svatek, John F. Roddick, 2008-12-09 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 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 XI contains extended versions of eight revised and selected papers from several international workshops in the field which took place in 2006 Journal on Data Semantics I Stefano Spaccapietra, Sal March, Karl Aberer, 2003-10-09 This book constitutes the first volume of the first journal in the new LNCS Journal Subline the Journal on Data Semantics Publishing a journal in a book 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 Computer Science series and the international computer science research and development 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 specific field has gained a certain 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 journal and making it a long

term success is a hard job nowadays due to a generally difficult market situation and library budget restrictions in particular. Because many of the proceedings in LNCS and especially many of the LNCS postproceedings 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 end instead of going through the painful Sisyphean adventure of establishing a new journal on its own.

**On the Specification of Database Semantic Integrity** Michael L. Brodie, MARYLAND UNIV COLLEGE PARK DEPT OF INFORMATION SYSTEMS MANAGEMENT., University of Toronto, 1978 Semantic integrity is fundamental to the correct application and use of database systems. A database exhibits semantic integrity if it is logically consistent and complete with respect to the real world application being modelled. Although the evaluation of semantic integrity relies on intuition to a large degree database models should facilitate its demonstration. To meet these requirements database models must be rich enough to permit the specification of the necessary semantics and to support the verification and validation of consistency. Database programming language and artificial intelligence concepts are integrated and extended to provide tools and techniques for improved database semantic integrity. Artificial intelligence concepts are applied to improve the semantic power of database models. Data type concepts are extended to accommodate databases and vice versa. The result is a semantically rich database model based on data type concepts and a schema specification language which integrates these concepts. This approach permits data type concepts to be applied directly to databases. It is argued that database semantic integrity can be improved through specification and verification tools and techniques based on data type concepts.

**Semantic Web Information Management** Roberto de Virgilio, Fausto Giunchiglia, Letizia Tanca, 2010-05-03 Databases have been designed to store large volumes of data and to provide efficient query interfaces. Semantic Web formats are geared towards capturing domain knowledge, interlinking annotations and offering a high level machine processable view of information. However the gigantic amount of such useful information makes efficient management of it increasingly difficult, undermining the possibility of transforming it into useful knowledge. The research presented by De Virgilio, Giunchiglia and Tanca tries to bridge the two worlds in order to leverage the efficiency and scalability of database oriented technologies to support an ontological high level view of data and metadata. The contributions present and analyze techniques for semantic information management by taking advantage of the synergies between the logical basis of the Semantic Web and the logical foundations of data management. The book's leitmotif is to propose models and methods especially tailored to represent and manage data that is appropriately structured for easier machine processing on the Web. After two introductory chapters on data management and the Semantic Web in general the remaining contributions are grouped into five parts: Semantic Web Data Storage, Reasoning in the Semantic Web, Semantic Web Data Querying, Semantic Web Applications and Engineering Semantic Web Systems. The handbook like presentation makes this volume an important reference on current work and a source of inspiration for future development targeting academic and industrial researchers as well as graduate students in



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