

What is Semantic Web and Linked Open Data?

- Semantic Web and Semantic Technologies
 - Exposing data and datasets to machines
 - Allowing machines to "understand" a bit of the data. Not giving a "higher meaning" to data
- RDF, Ontologies, RDF Shapes
 - RDF: simple graph data model: triples (S,P,O), also quads (S,P,O,C-G)
 - RDFS and OWL Ontologies: describe classes, properties, subclasses, sub-properties, description logic constructs
 - RDF Shapes (Application Profiles): describe constraints on RDF data
 - May use with or without schema; the schema is part of the data
- Linked Open Data
 - Expose datasets globally, making each entity/data point addressable (URL)
 - Use global identifiers not ambiguous names: "things not strings"
 - Link entities

Semantics In Databases

**Ngoc Thanh Nguyen, Bogdan
Trawiński, Raymond Kosala**



Semantics In Databases:

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.

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 Leopoldo Bertossi, Gyula O.H. Katona, Klaus-Dieter Schewe, Bernhard Thalheim, 2003-08-03 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.

Semantic Integrity Constraints in Federated Database Schemata Can Türker, 1999 On Object-Oriented Database

Systems Klaus R. Dittrich, Umeshwar Dayal, Alejandro P. Buchmann, 2012-12-06 Object oriented database systems have been approached with mainly two major intentions in mind namely to better support new application areas including CAD CAM office automation knowledge engineering and to overcome the impedance mismatch between data models and programming languages This volume gives a comprehensive overview of developments in this flourishing area of current database research Data model and language aspects interface and database design issues architectural and implementation questions are covered Although based on a series of workshops the contents of this book has been carefully edited to reflect the current state of international research in object oriented database design and implementation **Database Y.**

Kambayashi, 1981 **Deductive and Object-oriented Databases**, 1991 Readings in Object-Oriented Database Systems

Stanley B. Zdonik, David Maier, 1990 This comprehensive collection is a survey of research in object oriented databases offering a substantive overview of the field section introductions and over 40 research papers presented in their original scope and detail The balanced selection of articles presents a confluence of ideas from both the language and database research communities that have contributed to the object oriented paradigm The editors develop a general definition and model for object oriented databases and relate significant research efforts to this framework Further the collection explores the fundamental notions behind object oriented databases semantic data models implementation of object oriented systems transaction processing interfaces and related approaches Research and theory are balanced by applications to CAD systems programming environments and office information systems **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

Computational Science - ICCS 2004 Marian Bubak, Geert D. van Albada, Peter M.A. Sloot, Jack J. Dongarra, 2004-05-13 The International Conference on Computational Science ICCS 2004 held in Krakow Poland June 6-9 2004 was a follow up to the highly successful ICCS 2003 held at two locations in Melbourne Australia and St Petersburg Russia ICCS 2002 in Amsterdam The Netherlands and ICCS 2001 in San Francisco USA As computational science is still evolving in its quest for subjects of investigation and efficient methods ICCS 2004 was devised as a forum for scientists from mathematics and computer science as the basic computing disciplines and application areas interested in advanced computational methods for physics chemistry life sciences engineering arts and humanities as well as computer system vendors and software developers The main objective of this conference was to discuss problems and solutions in all areas to identify new issues to shape future

directions of research and to help users apply various advanced computational techniques The event harvested recent developments in computational grids and next generation computing systems tools advanced numerical methods data driven systems and novel application fields such as complex systems nanotechnology economics physics and population evolution

Communications, Signal Processing, and Systems Qilian Liang, Wei Wang, Xin Liu, Zhenyu Na, Min Jia, Baoju Zhang, 2020-04-04 This book brings together papers from the 2019 International Conference on Communications Signal Processing and Systems which was held in Urumqi China on July 20-22 2019 Presenting the latest developments and discussing the interactions and links between these multidisciplinary fields the book spans topics ranging from communications to signal processing and systems It is chiefly intended for undergraduate and graduate students in electrical engineering computer science and mathematics researchers and engineers from academia and industry as well as government employees

Deductive Databases Michael Dahr, 1997

Intelligent Information and Database Systems Ngoc Thanh Nguyen, Bogdan Trawiński, Raymond Kosala, 2015-03-16 The two volume proceedings of the ACIIDS 2015 conference LNAI 9011 9012 constitutes the refereed proceedings of the 7th Asian Conference on Intelligent Information and Database Systems held in Bali Indonesia in March 2015 The total of 117 full papers accepted for publication in these proceedings was carefully reviewed and selected from 332 submissions They are organized in the following topical sections semantic web social networks and recommendation systems text processing and information retrieval intelligent database systems intelligent information systems decision support and control systems machine learning and data mining multiple model approach to machine learning innovations in intelligent systems and applications bio inspired optimization techniques and their applications machine learning in biometrics and bioinformatics with applications advanced data mining techniques and applications collective intelligent systems for e market trading technology opportunity discovery and collaborative learning intelligent information systems in security and defense analysis of image video and motion data in life sciences augmented reality and 3D media cloud based solutions internet of things big data and cloud computing and artificial intelligent techniques and their application in engineering and operational research

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

Principles of Database Design: Logical organizations S. Bing Yao, 1985

Research Foundations in Object-oriented and Semantic Database Systems Alfonso F. Cardenas, Dennis McLeod, 1990

Agile Database Techniques Scott Ambler, 2012-09-17 Describes Agile Modeling Driven Design AMDD and Test Driven Design TDD approaches database refactoring database encapsulation strategies and tools that support evolutionary techniques Agile software developers often use object and relational database RDB technology together and as a result must overcome the impedance mismatch The author covers techniques for mapping objects to RDBs and for implementing concurrency control referential integrity shared business logic security access control reports and XML An

agile foundation describes fundamental skills that all agile software developers require particularly Agile DBAs Includes object modeling UML data modeling data normalization class normalization and how to deal with legacy databases Scott W Ambler is author of Agile Modeling 0471202827 a contributing editor with Software Development www.sdmagazine.com and a featured speaker at software conferences worldwide [Semantics in Databases](#) Bernhard Thalheim, Leonid Libkin, 2014-01-15 *Very Large Data Bases* Umeshwar Dayal, G. Schlageter, Huat Seng Lim, 1984 *Very Large Data Bases*, 1994

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web the process of photosynthesis can be summarized by the following equation $6\text{CO}_2 + 6\text{H}_2\text{O} \xrightarrow{\text{light}} \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$ which of the following best describes how photosynthesis results in a net storage of chemical potential energy

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describe and explain the effects of two other factors that affect the rate of photosynthesis you should include one or more sketch graphs in your answer

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the primary energy carrier in living things chloroplast the plant cell structure where

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synthesis means to make and that s exactly what it does so plants

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