Mokrane Bouzeghoub Carole Goble Vipul Kashyap Stefano Spaccapietra (Eds.)

# Semantics of a Networked World

Semantics for Grid Databases

First International IFIP Conference, ICSNW 2004 Paris, France, June 2004 Revised Selected Papers





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# **Semantics Of A Networked World**

**Yolanda Gil** 

#### **Semantics Of A Networked World:**

Semantics of a Networked World. Semantics for Grid Databases Mokrane Bouzeghoub, 2004-10-15 This book constitutes the thoroughly referred post proceedings of the First International Conference on Semantics of a Networked World Semantics for Grid Databases ICSNW 2004 held in Paris France in June 2004 The 16 revised full papers presented together with 2 invited papers and 7 posters were carefully reviewed and selected from close to 50 submissions The papers are organized in topical sections on semantic data integration peer to peer systems semantics for scientific applications interoperability and mediation and global services and schemas 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 formationtousers and applications worldwide This newly designated conference seriesonSemanticsfortheNetworkedWorlduni esintoasingleframework the previous series on Database Semantics and Visual Database Systems that the IFIP WG 2 6 has been o ering since 1985 Whereas the intent of the conferenceseriesistoexploreinterestingresearchissuesrelatedtosemantics the themeforthe2004editionisSemanticsforGridDatabases Gridcomputing a new eld concentrating on exible 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 scienti c 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 eciency 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 **Living in a networked world** Eva Geisberger, Manfred Broy, 2015-04-14 The rapid progress of information technology allows for increasingly powerful software intensive embedded systems machines executing integrated applications connected by and to global networks Thus these systems are more and more networked among each other but also with data and services on the Internet Intelligent solutions originate which gather processes of the living environment by means of sensors and actuators connect them to virtual software worlds and interpret monitor and control these processes in interaction with people In this way so called Cyber Physical Systems evolve a living in a networked world The interlocking applications include smart cities social infrastructures with integrated telemedicine care enhanced connected mobility with fully or semi autonomous driving cars and traffic

systems safety security and privacy as well as networked production and the sustainable energy turnaround The integrated research agenda Cyber Physical Systems agendaCPS provides a comprehensive overview of the capabilities and benefits of the arising CPS applications and manifold technological and social challenges involved The agenda illustrates which value the subject for economy and society has revolutionary applications of Cyber Physical Systems address technological and social trends and needs at the same time they penetrate and interconnect more and more areas of life On the basis of concrete future scenarios essential application domains are shown Their analysis reveals which capabilities and technologies form the basis of Cyber Physical systems and which innovation and possible conflict potential is inherent The agendaCPS makes clear which researchand action areas are from particular importance. In these contexts opportunities but also risks become apparent for Germany by Cyber Physical Systems This ist the English translation of the report agenda Cyber Physical Systems finished three years ago as a German acatech project by a German publication Network World ,1992-11-30 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce Journal on Data Semantics VI Stefano Spaccapietra, Karl Aberer, Philippe Cudré-Mauroux, 2006-08-29 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 speci cally 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 looks like the books from the well known Springer LNCS series the mode of operation is that of a jo nal 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 best papers from major conferences addressing data semantics issues Special issues foc ing on a speci c 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 journal published its rst volumein 2003 LNCS 2800 its secondvolume at the beginning of 2005 LNCS 3360 and its third volume in Summer 2005 LNCS 3534 Volumes I II and V are special issues composed of selected extended versions of best conference papers Volume III is a special issue on Semantic Based Geographical Infortion Systems coordinated by guest editor Esteban Zim anyi Journal on Data Semantics V Stefano Spaccapietra, Paolo Atzeni, Wesley W. Chu, Tiziana Catarci, Katia P. Sycara, 2006-01-25 The LNCS Journal on Data Semantics is devoted to the presentation of notable work that 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 Semantic Web for Knowledge and Data Management Ma, Zongmin, Wang, Huaiqing, 2008-08-31 Provides a single record of technologies and practices of the Semantic approach to the management organization interpretation retrieval and use of Web based data Semantic Web: Research and Applications Enrico Franconi, Michael Kifer, Wolfgang May, 2007-06-23 This book constitutes the refereed proceedings of the 4th European Semantic Web Conference ESWC 2007 held in Innsbruck Austria in June 2007 Coverage includes semantic Web services ontology learning inference and mapping social semantic Web ontologies personalization foundations of the semantic Web natural languages and ontologies and guerying and Web data Web Information Systems -- WISE 2004 Workshops Christoph Bussler, 2004-11-18 This book constitutes the joint models refereed proceedings of the two workshops held in conjunction with the 5th International Conference on Web Information Systems Engineering WISE 2004 in Brisbane Australia in November 2004 The 21 revised full papers and 5 revised short papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on ontologies for networked systems mobile learning fragmentation versus integration perspectives of the web information systems discipline and web services quality The Semantic Web: Research and Applications Lora Aroyo, Grigoris Antoniou, Eero Hyvönen, Annette ten Teije, Heiner Stuckenschmidt, Liliana Cabral, Tania Tudorache, 2010-06-07 This volume contains papers from the technical program of the 7th Extended Semantic Web Conference ESWC 2010 held from May 30 to June 3 2010 in Heraklion Greece ESWC 2010 presented the latest results in research and applications of Semantic Web technologies ESWC 2010 built on the success of the former European Semantic Web Conference series but sought to extend its focus by engaging with other communities within and outside Information and Communication Technologies in which semantics can play an important role At the same time ESWC has become a truly international conference Semantics of Web content enriched with domain theories ontologies data about Web usage natural language processing etc will enable a Web that p vides a qualitatively new level of functionality It will weave together a large network of human knowledge and make this knowledge machine processable Various automated services based on reasoning with metadata and ontologies will help the users to achieve their goals by accessing and processing infortion in machine understandable form This network of knowledge systems will ultimately lead to truly intelligent systems which will be employed for va ous complex decision making tasks Research about Web semantics can bene t from ideas and cross fertilization with many other areas arti cial intelligence natural language processing database and information systems information trieval multimedia distributed systems social networks Web engineering and Web science **Emergent Semantics** Philippe Cudre-Mauroux, 2008-10-09 Peer to peer systems are evolving with new information system architectures leading to the idea that the principles of decentralization and self organization will offer new approaches in informatics especially for systems that scale with the

number of users or for which central authorities do not prevail This book describes a new way of building **Current Trends** in Database Technology - EDBT 2006 Torsten Grust, Hagen Höpfner, Arantza Illarramendi, Stefan Jablonski, Marco Mesiti, Sascha Müller, Paula-Lavinia Patranjan, Kai-Uwe Sattler, Myra Spiliopoulou, Jef Wijsen, 2006-10-17 This book constitutes the thoroughly refereed joint post proceedings of nine workshops held as part of the 10th International Conference on Extending Database Technology EDBT 2006 held in Munich Germany in March 2006 The 70 revised full papers presented were selected from numerous submissions during two rounds of reviewing and revision On the Move to Meaningful Internet Systems 2006: OTM 2006 Workshops Zahir Tari, 2006-11-30 This two volume set LNCS 4277 4278 constitutes the refereed proceedings of 14 international workshops held as part of OTM 2006 in Montpellier France in October November 2006 The 191 revised full papers presented were carefully reviewed and selected from a total of 493 submissions to the workshops The first volume begins with 26 additional revised short or poster papers of the OTM 2006 main conferences Foundations for the Web of Information and Services Dieter Fensel, 2011-06-21 In the mid 1990s Tim Berners Lee had the idea of developing the World Wide Web into a Semantic Web a web of information that could be interpreted by machines in order to allow the automatic exploitation of data which until then had to be done by humans manually One of the first people to research topics related to the Semantic Web was Professor Rudi Studer From the beginning Rudi drove projects like ONTOBROKER and On to Knowledge which later resulted in W3C standards such as RDF and OWL By the late 1990s Rudi had established a research group at the University of Karlsruhe which later became the nucleus and breeding ground for Semantic Web research and many of today s well known research groups were either founded by his disciples or benefited from close cooperation with this think tank In this book published in celebration of Rudi s 60th birthday many of his colleagues look back on the main research results achieved during the last 20 years Under the editorship of Dieter Fensel once one of Rudi s early PhD students an impressive list of contributors and contributions has been collected covering areas like Knowledge Management Ontology Engineering Service Management and Semantic Search Overall this book provides an excellent overview of the state of the art in Semantic Web research by combining historical roots with the latest results which may finally make the dream of a Web of knowledge software and services come true

On the Move to Meaningful Internet Systems 2006 R. Meersman, 2006-10-24 This two volume set LNCS 4275 4276 constitutes the refereed proceedings of the four confederated conferences CoopIS 2006 DOA 2006 GADA 2006 and ODBASE 2006 held as OTM 2006 in Montpellier France in October November 2006 The 106 revised full and nine short papers presented together with four keynote speeches were carefully reviewed and selected from a total of 361 submissions

**High-Performance Computing on Complex Environments** Emmanuel Jeannot, Julius Zilinskas, 2014-04-10 With recent changes in multicore and general purpose computing on graphics processing units the way parallel computers are used and programmed has drastically changed It is important to provide a comprehensive study on how to use such machines

written by specialists of the domain The book provides recent research results in high performance computing on complex environments information on how to efficiently exploit heterogeneous and hierarchical architectures and distributed systems detailed studies on the impact of applying heterogeneous computing practices to real problems and applications varying from remote sensing to tomography The content spans topics such as Numerical Analysis for Heterogeneous and Multicore Systems Optimization of Communication for High Performance Heterogeneous and Hierarchical Platforms Efficient Exploitation of Heterogeneous Architectures Hybrid CPU GPU and Distributed Systems Energy Awareness in High Performance Computing and Applications of Heterogeneous High Performance Computing Covers cutting edge research in HPC on complex environments following an international collaboration of members of the ComplexHPC Explains how to efficiently exploit heterogeneous and hierarchical architectures and distributed systems Twenty three chapters and over 100 illustrations cover domains such as numerical analysis communication and storage applications GPUs and accelerators and energy efficiency The Semantic Web - ISWC 2005 Yolanda Gil, 2005-11-04 This book constitutes the refereed proceedings of the 4th International Semantic Web Conference ISWC 2005 held in Galway Ireland in November 2005 The 54 revised full academic papers and 17 revised industrial papers presented together with abstracts of 3 invited talks were carefully reviewed and selected from a total of 217 submitted papers to the academic track and 30 to the industrial track The research papers address all current issues in the field of the semantic Web ranging from theoretical aspects to various applications. The industrial track contains papers on applications in particular industrical sectors new technology for building applications and methodological and feasibility aspects of building industrical applications that incorporate semantic Web technology Short descriptions of the top five winning applications submitted to the Semantic Web Challenge competition conclude the volume Semantic Web Services Rudi Studer, Stephan Grimm, Andreas Abecker, 2007-05-23 In just a few years service oriented architectures SOA and Web services not only gained considerable interest in computer science research they were also taken up with unanimity by all major international players in the IT industry However and in spite of all existing standards in most SOA applications much human intervention is still required for example to interpret the semantics of informal descriptions or to harmonize incompatible data schemata Semantic Web services combine Web services communication technology with the intelligent processing of ontology based metadata to achieve highly integrated enterprise application integration scenarios for service look up schema matching or protocol negotiation for example Rudi Studer and his team deliver a self contained compendium about this exciting field starting with the basic standards and technologies and also including advanced applications in eGovernment and eHealth The contributions provide both the theoretical background and the practical knowledge necessary to understand the essential ideas and to design new cutting edge applications They address computer science students as well as researchers in academia and industry who need a concise introduction and state of the art survey of current research and the book can easily be used as the basis of a

specialized course on Web services or Semantic Web applications In addition IT professionals will be able to assess the potential and possible benefits of this new technology Semantic Web Christopher J. O. Baker, Kei-Hoi Cheung, 2007-04-14 The rapid growth of the Web has led to the proliferation of information sources and content accessible via the Internet While improvements in hardware capabilities continue to help the speed and the flow of information across networked computers there remains a major problem for the human user to keep up with the rapid expansion of the Web information space Although there is plenty of room for computers to help humans to discover navigate and integrate information in this vast information space the way the information is currently represented and structured through the Web is not easily readable to computers To address this issue the Semantic Web has emerged It envisions a new information infrastructure that enables computers to better address the information needs of human users To realize the Semantic Web vision a number of standard technologies have been developed These include the Uniform Resource Identifiers URI for identifying objects in the Web space as well as Resource Description Framework RDF and Web Ontology Language OWL for encoding knowledge in the form of standard machine readable ontologies. The goal is to migrate from the syntactic Web of documents to the semantic Web of ontologies The leading organization for facilitating developing and promoting these Web based standards is the World Wide Web Consortium W3C http www w3 org **Network World**, 1993-01-25 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce

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