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# Semantics Volume I Assets

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*Semantics  
Volume I  
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**BREWER  
STERLING**

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Proceedings of  
the Fourth  
World  
Congress on  
Engineering  
Asset  
Management

(WCEAM)  
2009 Springer  
This book  
constitutes  
the refereed  
proceedings of  
the 6th  
Metadata and  
Semantics  
Research  
Conference,  
MTSR 2012,

held in Cádiz,  
Spain, in  
November  
2012. The 33  
revised papers  
presented  
were carefully  
reviewed and  
selected from  
85  
submissions.  
The papers

are organized in a general, main track and several others: a track on metadata and semantics for open access repositories, research information systems and infrastructures , a second on metadata and semantics for cultural collections and applications, and finally one on metadata and semantics for agriculture, food and environment. Selected Papers from the Eighth International

Baltic Conference, DB&IS 2008 Springer This book is focused on an emerging area, i.e. combination of IoT and semantic technologies, which should enable breaking the silos of local and/or domain-specific IoT deployments. Taking into account the way that IoT ecosystems are realized, several challenges can be identified. Among them of definite importance

are (this list is, obviously, not exhaustive):  
 (i) How to provide common representation and/or shared understanding of data that will enable analysis across (systematically growing) ecosystems?  
 (ii) How to build ecosystems based on data flows?  
 (iii) How to track data provenance?  
 (iv) How to ensure/manage trust?  
 (v) How to search for things/data within ecosystems?  
 (vi) How to

store data and assure its quality? Semantic technologies are often considered among the possible ways of addressing these (and other, related) questions. More precisely, in academic research and in industrial practice, semantic technologies materialize in the following contexts (this list is, also, not exhaustive, but indicates the breadth of scope of semantic technology usability): (i) representation of artefacts in IoT ecosystems and IoT networks, (ii) providing interoperability between heterogeneous IoT artefacts, (ii) representation of provenance information, enabling provenance tracking, trust establishment, and quality assessment, (iv) semantic search, enabling flexible access to data originating in different places across the ecosystem, (v) flexible storage of heterogeneous data. Finally, Semantic Web, Web of Things, and Linked Open Data are architectural paradigms, with which the aforementioned solutions are to be integrated, to provide production-ready deployments.

*Volume II: Semantic Issues*  
Springer  
Semantics: Volume 2  
Cambridge University Press  
Managing Enterprise, Social, Sensor,

and Cloud-based Data and Services for Advanced Applications

IOS Press

The two-volume set LNCS 7649 + 7650

constitutes the refereed proceedings of the 11th

International Semantic Web Conference, ISWC 2012, held in

Boston, MA, USA, in

November 2012. The

International Semantic Web Conference is the premier forum for

Semantic Web research, where cutting edge scientific

results and technological innovations are presented, where

problems and solutions are discussed, and where the future of this vision is being

developed. It brings

together specialists in fields such as artificial intelligence, databases,

social networks, distributed computing, Web

engineering, information systems, human-computer

interaction, natural language

processing, and the social sciences.

Volume 1 contains a total of 41 papers which were

presented in the research track. They were carefully reviewed and selected from 186

submissions. Volume 2

contains 17 papers from the in-use track which

were accepted from 77 submissions.

In addition, it presents 8 contributions to the

evaluations and experiments track and 7

long papers and 8 short papers of the doctoral consortium.

**Economic Semantics**  
Springer Science & Business Media Engineering Asset Management discusses state-of-the-art trends and developments in the emerging field of engineering asset management as presented at the Fourth World Congress on Engineering Asset Management (WCEAM). It is an excellent

reference for practitioners, researchers and students in the multidisciplinary field of asset management, covering such topics as asset condition monitoring and intelligent maintenance; asset data warehousing, data mining and fusion; asset performance and level-of-service models; design and life-cycle integrity of physical assets; deterioration and preservation

models for assets; education and training in asset management; engineering standards in asset management; fault diagnosis and prognostics; financial analysis methods for physical assets; human dimensions in integrated asset management; information quality management; information systems and knowledge management; intelligent sensors and devices;

maintenance strategies in asset management; optimisation decisions in asset management; risk management in asset management; strategic asset management; and sustainability in asset management. Semantic Systems. The Power of AI and Knowledge Graphs Springer This comprehensive book draws together experts to explore how knowledge

technologies can be exploited to create new multimedia applications, and how multimedia technologies can provide new contexts for the use of knowledge technologies. Thorough coverage of all relevant topics is given. The step-by-step approach guides the reader from fundamental enabling technologies of ontologies, analysis and reasoning, through to applications which have

hitherto had less attention.

**The Semantic Web -- ISWC 2012**

Routledge  
The Eighth International Baltic Conference on Databases and Information Systems took place on June 25 2008 in Tallinn, Estonia. This conference is continuing a series of successful bi-annual Baltic conferences on databases and information systems (IS). The aim is to provide a wide international

forum for academics and practitioners in the field of databases and modern information systems for exchanging their achievements in this area. The original research results presented in *Databases and Information Systems V* mostly belong to novel fields of IS and database research such as database technology and the semantic web, ontology-based IS, IS

and AI technologies and IS integration. The contribution of Dr. Jari Palomaum;ki showed how different ontological commitments affect the way we are modeling the world when creating an information system. As semantic technologies have been gaining more attention recently, a special session on semantic interoperability of IS was organized. The invited

talks from each Baltic State gave a good insight how semantic interoperability initiatives are developing in each of the Baltic States and how they relate to the European semantic interoperability framework. *The CORAS Approach* Springer Science & Business Media Enterprises and organizations of any kind embedded in today's economic environment are deeply

dependent on their ability to take part in collaborations. Consequently, it is strongly required for them to get actively involved for their own benefit in emerging, potentially opportunistic collaborative enterprise networks. The concept of “interoperability” has been defined by INTEROP-VLab as “The ability of an enterprise system or application to interact with others at a low cost in a flexible

approach”. Consequently, interoperability of organizations appears as a major issue to succeed in building on the fly emerging enterprise networks. The International Conference on Interoperability for Enterprise Systems and Applications (I-ESA 2014) was held under the motto “interoperability for agility, resilience and plasticity of collaborations” on March 26-28, 2014 and organized

by the Ecole des Mines d’Albi-Carmaux, France on behalf of the European Laboratory for Enterprise Interoperability (INTEROP-VLab). On March 24-25, co-located with the conference eight workshops and one doctoral symposium were held in four tracks complementing the program of the I-ESA’14 conference. The workshops and the doctoral symposium



address areas of greatest current activity focusing on active discussions among the leading researchers in the area of Enterprise Interoperability. This part of the conference helps the community to operate effectively, building cooperative and supportive international links as well as providing new knowledge of on-going research to practitioners. The workshops and doctoral symposium aimed at exploiting new issues, challenges and solutions for Enterprise Interoperability (EI) and associated domains of innovation such as Smart Industry, Internet-Of-Things, Factories of the Future, EI Applications and Standardisation. These proceedings include the short papers from the I-ESA'14 workshops and the doctoral symposium. The book is split up into 9 sections, one for each workshop and one for the doctoral symposium. All sections were organized following four tracks: (1) EI and Future Internet / Factory of the Future; (2) EI Application Domains and IT; (3) EI Standards; (4) EI Doctoral Symposium. For each section, a workshop report is provided summarizing the content and the issues

discussed during the sessions. The goal of the first track was to offer a discussion opportunity on interoperability issues regarding the use of Internet of Things on manufacturing environment (Workshops 1 and 3) on one hand, and regarding the potential of innovation derived from the use of digital methods, architectures and services such as Smart Networks (Workshops 2 and 4) on the other hand.

The second track focused on particular application domains that are looking for innovative solutions to support their strong collaborative needs. Thus, the track developed one workshop on the use of EI solution for Future City-Logistics (Workshop 5) and one on the use of EI solutions for Crisis / Disaster Management (Workshop 6). The third track studied the recent developments in EI

standardization. Two workshops were dedicated to this issue. The first one has proposed to focus on the management of standardization (Workshop 8) and the second one has chosen to work on the new knowledge on standardization developments in the manufacturing service domain (Workshop 9). The last track, the doctoral symposium presented research

results from selected dissertations. The session discussed EI knowledge issues, notably in terms of gathering through social networks or Internet of Things and of exploitation through innovative decision support systems.

Metadata and Semantics  
Springer Nature  
This book constitutes the thoroughly refereed post-proceedings of the satellite events of the 9th International Conference on the Semantic Web, ESWC 2012, held in Heraklion, Crete, Greece, in May 2012. This volume contains 49 full papers and 13 short papers describing the posters and demonstrations. (SUGGESTION/HELP needed).

**Metadata and Semantic Research**  
Springer Science & Business Media  
The two-volume set LNCS 7031 and LNCS 7032 constitutes the proceedings of the 10th International Semantic Web Conference, ISWC 2011, held in Bonn, Germany, in October 2011. Part I, LNCS 7031, contains 50 research papers which were carefully reviewed and selected from 264 submissions. The 17 semantic Web in-use track papers contained in part II, LNCS 7032, were selected from 75 submissions. This volume also contains

15 doctoral consortium papers, selected from 31 submissions. The topics covered are: ontologies and semantics; database, IR, and AI technologies for the semantic Web; management of semantic Web data; reasoning over semantic Web data; search, query, integration, and analysis on the semantic Web; robust and scalable knowledge management and reasoning on the Web; interacting with semantic Web data; ontology modularity, mapping, merging and alignment; languages, tools, and methodologies for representing and managing semantic Web data; ontology, methodology, evaluation, reuse, extraction and evolution; evaluation of semantic Web technologies or data; specific ontologies and ontology pattern for the semantic Web; new formalisms for semantic Web; user interfaces to the semantic Web; cleaning, assurance, and provenance of semantic Web data; services, and processes; social semantic Web, evaluation of semantic Web technology; semantic Web population from the human Web. *Theory and Applications* Cambridge University Press Digital asset management

is undergoing a fundamental transformation . Near universal availability of high-quality web-based assets makes it important to pay attention to the new world of digital ecosystems and what it means for managing, using and publishing digital assets. The Ecosystem of Digital Assets reflects on these developments and what the emerging 'web of things' could mean for digital

assets. The book is structured into three parts, each covering an important aspect of digital assets. Part one introduces the emerging ecosystems of digital assets. Part two examines digital asset management in a networked environment. The third part covers media ecosystems. Looks to the future of digital asset management, focussing on the next generation web Includes up-to date

developments in the field, crowd sourcing, and cloud services Details case studies to demonstrate how generic requirements are met in particular cases  
*Encyclopedia of Database Technologies and Applications*  
Oxford University Press  
This book constitutes the refereed proceedings of the Third International Semantic Web Conference, ISWC 2004, held in Hiroshima,

Japan in November 2004. The 55 revised full papers presented together with abstracts of 2 invited talks were carefully reviewed and selected from a total of 227 submitted papers. The papers are organized in topical sections on data semantics, p2p systems, semantic Web mining, tools and methodologies for Web agents, user interfaces and visualization, large scale knowledge

management, semantic Web services, inference, searching and querying, semantic Web middleware, integration and interoperability, ontologies, and industrial track.  
*A Practical Introduction to Denotational Semantics*  
 Routledge  
 This book constitutes the refereed proceedings of the International RuleML Symposium on Rule Interchange and Applications, RuleML 2010,

held in Washington, DC, USA, in October 2010 - collocated with the 13th International Business Rules Forum Conference 2010. The 14 revised full papers and 7 revised short papers presented together with the abstracts of 3 keynote lectures were carefully reviewed and selected from 42 submissions. The accepted papers address a wide range of rule topics, including traditional

topics, such as rules and uncertainty, rule-based event processing and reaction rules, rules and inferencing, rule transformation and extraction, rules, semantic technology, and cross-industry standards, rules and norms, rule-based distributed/multi-agent systems, and miscellaneous rule topics. [The Semantic Web](#) Springer Science & Business

Media  
The term “risk” is known from many fields, and we are used to references to contractual risk, economic risk, operational risk, legal risk, security risk, and so forth. We conduct risk analysis, using either offensive or defensive approaches to identify and assess risk. Offensive approaches are concerned with balancing potential gain against risk of investment loss, while defensive

approaches are concerned with protecting assets that already exist. In this book, Lund, Solhaug and Stølen focus on defensive risk analysis, and more explicitly on a particular approach called CORAS. CORAS is a model-driven method for defensive risk analysis featuring a tool-supported modelling language specially designed to model risks. Their book serves as an introduction to risk analysis in

general, including the central concepts and notions in risk analysis and their relations. The authors' aim is to support risk analysts in conducting structured and stepwise risk analysis. To this end, the book is divided into three main parts. Part I of the book introduces and demonstrates the central concepts and notation used in CORAS, and is largely example-driven. Part II gives a

thorough description of the CORAS method and modelling language. After having completed this part of the book, the reader should know enough to use the method in practice. Finally, Part III addresses issues that require special attention and treatment, but still are often encountered in real-life risk analysis and for which CORAS offers helpful advice and assistance. This part also includes a

short presentation of the CORAS tool support. The main target groups of the book are IT practitioners and students at graduate or undergraduate level. They will appreciate a concise introduction into the emerging field of risk analysis, supported by a sound methodology, and completed with numerous examples and detailed guidelines. **Interoperability for**



<p><b>Agility, Resilience and Plasticity of Collaborations (I-ESA 14 Proceedings)</b>          IGI Global          This book constitutes the thoroughly refereed postconference proceedings of the 5th International Andrei Ershov Memorial Conference, PSI 2003, held in Akademgorodok, Novosibirsk, Russia in July 2003. The 55 revised full papers presented were carefully reviewed and selected from</p>	<p>110          submissions during two rounds of evaluation and improvement. The papers are organized in topical sections on programming, software engineering, software education, program synthesis and transformation, graphical interfaces, partial evaluation and supercompilation, verification, logic and types, concurrent and distributed</p>	<p>systems, reactive systems, program specification, verification and model checking, constraint programming, documentation and testing, databases, and natural language processing. <i>Script-Based Semantics</i> Universidad de Zaragoza Summer school lecture courses on modern logic and computation are presented here. <a href="#">Linguistic Semantics</a> IGI Global          A compilation</p>
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of knowledge collected from several researchers in the field of interactive systems, offering an overview of the different parts of the environment that must be taken into account to develop a quality interactive systems from the software engineering discipline.

**6th Research Conference, MTSR 2012, Cádiz, Spain, November 28-30, 2012. Proceedings**  
Cambridge University Press

"Addresses the evolution of database management, technologies and applications along with the progress and endeavors of new research areas."--P. xiii.  
Semantics and Logics of Computation  
Springer Science & Business Media  
This is an edited volume based on the 2007 Conference on Metadata and Semantics Research (MTSR), now in its second meeting.  
Metadata research is a

pluri-disciplinary field that encompasses all aspects of the definition, creation, assessment, management and use of metadata. The volume brings together world class leaders to contribute their research and up-to-date information on metadata and semantics applied to library management, e-commerce, e-business, information science and librarianship, to name a few. The book is designed for

a professional audience composed of researchers and practitioners in industry. **Enterprise Interoperability** Emerald Group Publishing This open access book constitutes the refereed proceedings of the 15th International Conference on Semantic Systems, SEMANTiCS 2019, held in Karlsruhe, Germany, in September 2019. The 20 full papers and 8 short papers presented in this volume were carefully reviewed and selected from 88 submissions. They cover topics such as: web semantics and linked (open) data; machine learning and deep learning techniques; semantic information management and knowledge integration; terminology, thesaurus and ontology management; data mining and knowledge discovery; semantics in blockchain and distributed ledger technologies.