

# Semantics Of Relationships An Interdisciplinary Perspective

*Relationships in the Organization of Knowledge* - A. Bean 2013-04-17

Relationships abound in the library and information science (LIS) world. Those relationships may be social in nature, as, for instance, when we deal with human relationships among library personnel or relationships (i. e. , "public relations") between an information center and its clientele. The relationships may be educational, as, for example, when we examine the relationship between the curriculum of an accredited school and the needs of the work force it is preparing students to join. Or the relationships may be economic, as when we investigate the relationship between the cost of journals and the frequency with which they are cited. Many of the relationships of concern to us reflect phenomena entirely internal to the field: the relationship between manuscript collections, archives, and special collections; the relationship between end user search behavior and the effectiveness of searches; the relationship between access to and use of information resources; the relationship between recall and precision; the relationship between various bibliometric laws; etc. The list of such relationships could go on and on. The relationships addressed in this volume are restricted to those involved in the organization of recorded knowledge, which tend to have a conceptual or semantic basis, although statistical means are sometimes used in their discovery.

**The Semantics of Relationships** - R. Green 2013-04-18

The genesis of this volume was the participation of the editors in an ACMISIGIR (Association for Computing Machinery/Special Interest Group on Information Retrieval) workshop entitled "Beyond Word Relations" (Hetzler, 1997). This workshop examined a number of relationship types with significance for information retrieval beyond the conventional topic-matching relationship. From this shared participation

came the idea for an edited volume on relationships, with chapters to be solicited from researchers and practitioners throughout the world.

Ultimately, one volume became two volumes. The first volume, *Relationships in the Organization of Knowledge* (Bean & Green, 2001), examines the role of relationships in knowledge organization theory and practice, with emphasis given to thesaural relationships and integration across systems, languages, cultures, and disciplines. This second volume examines relationships in a broader array of contexts. The two volumes should be seen as companions, each informing the other. As with the companion volume, we are especially grateful to the authors who willingly accepted challenges of space and time to produce chapters that summarize extensive bodies of research. The value of the volume clearly resides in the quality of the individual chapters. In naming this volume *The Semantics of Relationships: An Interdisciplinary Perspective*, we wanted to highlight the fact that relationships are not just empty connectives. Relationships constitute important conceptual units and make significant contributions to meaning.

*Annual Review of Information Science & Technology: Volume 41* - Blaise Cronin 2006-10

ARIST, published annually since 1966, is a landmark publication within the information science community. It surveys the landscape of information science and technology, providing an analytical, authoritative, and accessible overview of recent trends and significant developments. The range of topics varies considerably, reflecting the dynamism of the discipline and the diversity of theoretical and applied perspectives. While ARIST continues to cover key topics associated with classical information science (e.g., bibliometrics, information retrieval), editor Blaise Cronin is selectively expanding its footprint in an effort to

connect information science more tightly with cognate academic and professional communities.

**Semantic Web** - Amit Sheth 2013-03-31

Semantic web continues to be an increasingly important system for allowing end-users to share and communicate information online.

Semantic Web: Ontology and Knowledge Base Enabled Tools, Services and Application focuses on the information systems discipline and the tools and techniques utilized for the emerging use of semantic web.

Covering topics on semantic search, ontologies, and recommendation systems, this publication is essential for academics, practitioners, and industry professionals.

The Oxford Handbook of Computational Linguistics - Ruslan Mitkov 2022-05-23

Ruslan Mitkov's highly successful Oxford Handbook of Computational Linguistics has been substantially revised and expanded in this second edition. Alongside updated accounts of the topics covered in the first edition, it includes 17 new chapters on subjects such as semantic role-labelling, text-to-speech synthesis, translation technology, opinion mining and sentiment analysis, and the application of Natural Language Processing in educational and biomedical contexts, among many others.

The volume is divided into four parts that examine, respectively: the linguistic fundamentals of computational linguistics; the methods and resources used, such as statistical modelling, machine learning, and corpus annotation; key language processing tasks including text segmentation, anaphora resolution, and speech recognition; and the major applications of Natural Language Processing, from machine translation to author profiling. The book will be an essential reference for researchers and students in computational linguistics and Natural Language Processing, as well as those working in related industries.

**Constructing Professional Discourse** - Concepción Orna-Montesinos 2012-01-17

This book explores the fascinating role that language plays in the construction of non-verbal objects by mapping out the ontological meaning of the specialised concepts and the domain-specific knowledge

embedded in them. In doing so, it provides a comprehensive linguistic insight into the discourse of professional domain-specific communities and hence, into the communication practices and procedures of those communities. In this respect, the book offers a response to the claims made by many of the most influential applied linguists today, such as Vijay Bhatia (1993, 2004), John Swales (1990, 2004) or Ken Hyland (2002), among others, who have consistently defended the need for applied linguistic research into the textual, generic and social perspectives on the under-researched interrelatedness of the discursive and professional practices of a discipline. Specifically, this book provides readers with an integrative multi-perspective approach to the study of professional, domain-specific discourses. While it mainly draws on the tenets of genre theory and discourse semantics, it also nurtures from the theoretical and empirical foundations of applied linguistics, cognitive linguistics, corpus linguistics and ontological engineering. The book starts from the analysis of domain specific texts as final written products with specific lexico-grammatical, semantic and rhetorical features to later enquire into the written products as textual artefacts closely linked to the social context of production and interpretation of the text. This integrative approach provides fresh new insights into the way the processes of writing are affected by the community-specific, institutional and socio-historical circumstances in which domain-specific texts are produced.

**Annual Review of Information Science and Technology** -

Information Today Inc 2005-10

ARIST, published annually since 1966, is a landmark publication within the information science community. It surveys the landscape of information science and technology, providing an analytical, authoritative, and accessible overview of recent trends and significant developments. The range of topics varies considerably, reflecting the dynamism of the discipline and the diversity of theoretical and applied perspectives. While ARIST continues to cover key topics associated with "classical" information science (e.g., bibliometrics, information retrieval), editor Blaise Cronin is selectively expanding its footprint in an effort to

connect information science more tightly with cognate academic and professional communities. Contents of Volume 40 (2006): SECTION I: Information and Society Chapter 1: The Micro- and Macroeconomics of Information, Sandra Braman Chapter 2: The Geographies of the Internet, Matthew Zook Chapter 3: Open Access, M. Carl Drott SECTION II: Technologies and Systems Chapter 4: TREC: An Overview, Donna K. Harman and Ellen M. Voorhees Chapter 5: Semantic Relations in Information Science, Christopher S. G. Khoo and Jin-Cheon Na Chapter 6: Intelligence and Security Informatics, Hsinchun Chen and Jennifer Xu SECTION III: Information Needs and Use Chapter 7: Information Behavior, Donald O. Case Chapter 8: Collaborative Information Seeking and Retrieval, Jonathan Foster Chapter 9: Information Failures in Health Care, Anu MacIntosh-Murray and Chun Wei Choo Chapter 10: Workplace Studies and Technological Change, Angela Cora Garcia, Mark E. Dawes, Mary Lou Kohne, Felicia Miller, and Stephan F. Groschwitz SECTION IV: Theoretical Perspectives Chapter 11: Information History, Alistair Black Chapter 12: Social Epistemology and Information Science, Don Fallis Chapter 13: Formal Concept Analysis in Information Science, Uta Priss.

### **Conceptual Structures: Common Semantics for Sharing**

**Knowledge** - Frithjof Dau 2011-04-06

This book constitutes the refereed proceedings of the 13th International Conference on Conceptual Structures, ICCS 2005, held in Kassel, Germany, in July 2005. The 23 revised full papers presented together with 9 invited papers were carefully reviewed and selected from 66 submissions. The papers are organized in topical sections on theoretical foundations, knowledge engineering and tools, and knowledge acquisition and ontologies.

**Natural Language Processing and Information Systems** - Rafael Munoz 2011-06-16

This book constitutes the refereed proceedings of the 16th International Conference on Applications of Natural Language to Information Systems, held in Alicante, Spain, in June 2011. The 11 revised full papers and 11 revised short papers presented together with 23 poster papers, 1 invited talk and 6 papers of the NLDB 2011 doctoral symposium were carefully

reviewed and selected from 74 submissions. The papers address all aspects of Natural Language Processing related areas and present current research on topics such as natural language in conceptual modeling, NL interfaces for data base querying/retrieval, NL-based integration of systems, large-scale online linguistic resources, applications of computational linguistics in information systems, management of textual databases NL on data warehouses and data mining, NLP applications, as well as NL and ubiquitous computing. *Decision Support for Construction Cost Control in Developing Countries* - Pettang, Chrispin 2016-03-08

The continued growth of emerging nations depends largely on the development of their built infrastructures and communities. Roads, dams, bridges, hospitals, schools, and housing are all examples of the built environment that impacts economic improvements in the developing world. *Decision Support for Construction Cost Control in Developing Countries* explores how the construction industry contributes to a nation's GDP and the related cost issues and proposed cost reduction solutions for construction projects and initiatives in developing regions. Emphasizing the role of decision support systems for reducing and managing the costs associated with construction projects, this title is an essential reference source for civil engineers, business and engineering managers, project managers, researchers, and professionals in the construction industry.

**Pattern Recognition and Information Processing** - Viktor V. Krasnoprosin 2017-02-15

This book constitutes the refereed proceedings of the 13th International Conference on Pattern Recognition and Information Processing, PRIP 2016, held in Minsk, Belarus, in October 2016. The 18 revised full papers presented were carefully reviewed and selected from 72 submissions. The papers are organized in topical sections on summarizing lectures; pattern recognition and image analysis; information processing and applications.

*Exploration of Space, Technology, and Spatiality: Interdisciplinary Perspectives* - Turner, Phil 2008-09-30

"For researchers and scholars working at the intersection of physical, social, and technological space, this book provides critical research from leading experts in the space technology domain"--Provided by the publisher.

Societal Challenges and Geoinformatics - A. Krishna Sinha 2011

Semantic Relations Between Nominals - Vivi Nastase 2021-04-08

Opportunity and Curiosity find similar rocks on Mars. One can generally understand this statement if one knows that Opportunity and Curiosity are instances of the class of Mars rovers, and recognizes that, as signalled by the word on, ROCKS are located on Mars. Two mental operations contribute to understanding: recognize how entities/concepts mentioned in a text interact and recall already known facts (which often themselves consist of relations between entities/concepts). Concept interactions one identifies in the text can be added to the repository of known facts, and aid the processing of future texts. The amassed knowledge can assist many advanced language-processing tasks, including summarization, question answering and machine translation. Semantic relations are the connections we perceive between things which interact. The book explores two, now intertwined, threads in semantic relations: how they are expressed in texts and what role they play in knowledge repositories. A historical perspective takes us back more than 2000 years to their beginnings, and then to developments much closer to our time: various attempts at producing lists of semantic relations, necessary and sufficient to express the interaction between entities/concepts. A look at relations outside context, then in general texts, and then in texts in specialized domains, has gradually brought new insights, and led to essential adjustments in how the relations are seen. At the same time, datasets which encompass these phenomena have become available. They started small, then grew somewhat, then became truly large. The large resources are inevitably noisy because they are constructed automatically. The available corpora—to be analyzed, or used to gather relational evidence—have also grown, and some systems now operate at the Web scale. The learning of semantic

relations has proceeded in parallel, in adherence to supervised, unsupervised or distantly supervised paradigms. Detailed analyses of annotated datasets in supervised learning have granted insights useful in developing unsupervised and distantly supervised methods. These in turn have contributed to the understanding of what relations are and how to find them, and that has led to methods scalable to Web-sized textual data. The size and redundancy of information in very large corpora, which at first seemed problematic, have been harnessed to improve the process of relation extraction/learning. The newest technology, deep learning, supplies innovative and surprising solutions to a variety of problems in relation learning. This book aims to paint a big picture and to offer interesting details.

Probing Semantic Relations - Alain Auger 2010

Semantic relations are at the core of any representational system, and are keys to enable the next generation of information processing systems with semantic and reasoning capabilities. Acquisition, description, and formalization of semantic relations are fundamentals in computer-based systems where natural language processing is required. "Probing Semantic Relations" provides a state of the art of current research trends in the area of knowledge extraction from text using linguistic patterns. First published as a Special Issue of "Terminology" 14:1 (2008), the current book emphasizes how definitional knowledge is conveyed by conceptual and semantic relations such as synonymy, causality, hypernymy (generic specific), and meronymy (part whole). Showing the difficulties and successes of pattern-based approaches, the book illustrates current and future challenges in knowledge acquisition from text. This book provides new perspectives to researchers and practitioners in terminology, knowledge engineering, natural language processing, and semantics."

**Next Generation Geospatial Information** - Peggy Agouris 2005-08-11

With the turn of the century our ability to collect and store geospatial information has increased considerably. This has resulted in ever-increasing amounts of heterogeneous geospatial data, an issue that poses new challenges and opportunities. As these rich sources of data are

made available, users rely, now more than ever, on the geospatial data  
**Transforming Digital Worlds** - Gobinda Chowdhury 2018-03-17

This book constitutes the proceedings of the 13th International Conference on Transforming Digital Worlds, iConference 2018, held in Sheffield, UK, in March 2018. The 42 full papers and 40 short papers presented together with the abstracts of 3 invited talks in this volume were carefully reviewed and selected from 219 submissions. The papers address topics such as social media; communication studies and online communities; mobile information and cloud computing; data mining and data analytics; information retrieval; information behaviour and digital literacy; digital curation; and information education and libraries.

**Technology for Facilitating Humanity and Combating Social Deviations: Interdisciplinary Perspectives** - Vargas Martin, Miguel 2010-10-31

Technology has been used to perpetrate crimes against humans, animals, and the environment, which include racism, cyber-bulling, illegal pornography, torture, illegal trade of exotic species, irresponsible waste disposal, and other harmful aberrations of human behavior. Technology for Facilitating Humanity and Combating Social Deviations: Interdisciplinary Perspectives provides a state-of-the-art compendium of research and development on socio-technical approaches to support the prevention, mitigation, and elimination of social deviations with the help of computer science and technology. This book provides historical backgrounds, experimental studies, and future perspectives on the use of computing tools to prevent and deal with physical, psychological and social problems that impact society as a whole.

**Geographic Information Science** - Sara Irina Fabrikant 2010-09-03  
This book constitutes the refereed proceedings of the 6th International Conference on Geographic Information Science, GIScience 2010, held in Zurich, Switzerland, in September 2010. The 22 revised full papers

presented were carefully reviewed and selected from 87 submissions. While traditional research topics such as spatio-temporal representations, spatial relations, interoperability, geographic databases, cartographic generalization, geographic visualization, navigation, spatial cognition, are alive and well in GIScience, research on how to handle massive and rapidly growing databases of dynamic space-time phenomena at fine-grained resolution for example, generated through sensor networks, has clearly emerged as a new and popular research frontier in the field.

**Theories of Geographic Concepts** - Marinos Kavouras 2007-12-20  
Most widely available approaches to semantic integration provide ad-hoc, non-systematic, subjective manual mappings that lead to procrustean amalgamations to fit the target standard, an outcome that pleases no one. Written by experts in the field, Theories of Geographic Concepts: Ontological Approaches to Semantic Integration emphasizes the real issues involved in integrating existing geo-ontologies. The book addresses theoretical, formal, and pragmatic issues of geographic knowledge representation and integration based on an ontological approach. The authors highlight the importance of philosophical, cognitive, and formal theories in preserving the semantics of geographic concepts during ontology development and integration. They elucidate major theoretical issues, then introduce a number of formal tools. The book delineates a general framework with the necessary processes and guidelines to ontology integration and applies it to a selection of ontology integration cases. It concludes with a retrospection of key issues and identifies open research questions. Copiously illustrated, the book contains more than 80 illustrations and several examples to various approaches that provide a better understanding of the complexity of ontology integration tasks. The authors provide guidance on selecting the most appropriate approach and details on its application to indicative integration problems.



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