
Graph Based Knowledge Representation Computational Foundations Of Conceptual Graphs Advanced Information And Knowledge Processing

Intelligent Systems

First China Conference, CCKS 2016, Beijing, China, September 19-22, 2016, Revised
Selected Papers

Intelligent Distributed Computing X

Conceptual Structures: Leveraging Semantic Technologies

Domain-Specific Knowledge Graph Construction

21st International Conference on Conceptual Structures, ICCS 2014, Iași, Romania,
July 27-30, 2014, Proceedings

Computer Science

17th International Conference on Conceptual Structures, ICCS 2009, Moscow, Russia,
July 26-31, 2009, Proceedings

Computational Systems Bioinformatics

(Volume 7)

Conceptual Structures for Discovering Knowledge

A Compendium

26th International Conference on Conceptual Structures, ICCS 2021, Virtual Event,
September 20-22, 2021, Proceedings

Advances in Computational Intelligence

Knowledge Management

Graph Structures for Knowledge Representation and Reasoning

Enterprise Information Systems

Graph Representation Learning

Computational Intelligence and Its Applications in Healthcare

Proceedings of the 10th International Symposium on Intelligent Distributed

Computing - IDC 2016, Paris, France, October 10-12 2016

New Frontiers in Graph Theory

Second International Workshop, GKR 2011, Barcelona, Spain, July 16, 2011. Revised
Selected Papers

15h International Conference, ICEIS 2013, Angers, France, July 4-7, 2013, Revised Selected Papers

Towards a Unified Modeling and Knowledge-Representation based on Lattice Theory
From Data Models to Context-Aware Knowledge Graphs

19th International Conference on Conceptual Structures, ICCS 2011, Derby, UK, July 25-29, 2011, Proceedings

Visual Informatics: Sustaining Research and Innovations
Graph-Based Representation and Reasoning

7th International Workshop on Security, IWSEC 2012, Fukuoka, Japan, November 7-9, 2012, Proceedings

The Semantic Web

22nd International Conference on Conceptual Structures, ICCS 2016, Annecy, France, July 5-7, 2016, Proceedings

Second China Conference, CCKS 2017, Chengdu, China, August 26-29, 2017, Revised Selected Papers

Knowledge Representation and Defeasible Reasoning

An Interdisciplinary Approach for Business Decisions

Encyclopedia of Bioinformatics and Computational Biology

Advances in Information and Computer Security

Provenance in Data Science

11th Mexican International Conference on Artificial Intelligence, MICAI 2012, San Luis Potosi, Mexico, October 27 - November 4, 2012. Revised Selected Papers, Part II Knowledge Seeker - Ontology Modelling for Information Search and Management

*Graph Based Knowledge
Representation
Computational
Foundations Of
Conceptual Graphs
Advanced Information
And Knowledge
Processing*

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Intelligent Systems Springer

Recently, the Semantic Web has gained huge popularity to address these challenges. Semantic web technologies have the opportunity to transform the way healthcare providers utilize technology to gain insights and knowledge from their data and make

decisions. Both big data and semantic web technologies can complement each other to address the challenges and add intelligence to healthcare management systems. The aim of this book is to analyze the current status on how Semantic Web is used to solve the health data integration and interoperability problem, how it provides advanced data linking capabilities that can improve search and retrieval of medical data. There are chapters in the book which analyze the tools and approaches to semantic health data analysis and knowledge discovery. The book discusses the role of semantic

technologies in extracting and transforming healthcare data before storing it in repositories. It also discusses different approaches for integrating heterogeneous healthcare data. To summarize, the book will help readers understand key concepts in semantic web applications for biomedical engineering and healthcare.

Springer

Abstract: "This paper introduces a computational framework to support the process of design abstraction. A domain-independent graph-based representation is presented to support decomposition of a design problem while modeling coupling between subproblems, multiple representations of a design at varying levels of abstraction, and analysis of a design. The

representation separates knowledge into knowledge about the design instance, the domain of design, and the various levels of abstraction. The use of the representation is illustrated with two examples: the design of a two-tiered column for buckling and the design of a metal rolling operation for a continuous casting manufacturing process."

First China Conference, CCKS 2016, Beijing, China, September 19-22, 2016, Revised Selected Papers Springer

Computational Intelligence and Its Applications in Healthcare presents rapidly growing applications of computational intelligence for healthcare systems, including intelligent synthetic characters, man-machine interface, menu generators, user acceptance analysis, pictures archiving, and

communication systems. Computational intelligence is the study of the design of intelligent agents, which are systems that act intelligently: they do what they think are appropriate for their circumstances and goals; they're flexible to changing environments and goals; they learn from experience; and they make appropriate choices given perceptual limitations and finite computation. Computational intelligence paradigms offer many advantages in maintaining and enhancing the field of healthcare. Provides coverage of fuzzy logic, neural networks, evolutionary computation, learning theory, probabilistic methods, telemedicine, and robotics applications Includes coverage of artificial intelligence and biological applications, soft computing, image and

signal processing, and genetic algorithms Presents the latest developments in computational methods in healthcare Bridges the gap between obsolete literature and current literature *Intelligent Distributed Computing X* Morgan & Claypool Publishers This book constitutes the refereed proceedings of the 7th International Workshop on Security, IWSEC 2012, held in Fukuoka, Japan, in November 2012. The 16 revised selected papers presented in this volume were carefully reviewed and selected from 53 submissions. They are organized in topical sections named: implementation; encryption and key exchange; cryptanalysis; and secure protocols. Conceptual Structures: Leveraging Semantic Technologies Springer

In this 2012 edition of Advances in Knowledge-Based and Intelligent Information and Engineering Systems the latest innovations and advances in Intelligent Systems and related areas are presented by leading experts from all over the world. The 228 papers that are included cover a wide range of topics. One emphasis is on Information Processing, which has become a pervasive phenomenon in our civilization. While the majority of Information Processing is becoming intelligent in a very broad sense, major research in Semantics, Artificial Intelligence and Knowledge Engineering supports the domain specific applications that are becoming more and more present in our everyday living. Ontologies play a major role in the

development of Knowledge Engineering in various domains, from Semantic Web down to the design of specific Decision Support Systems. Research on Ontologies and their applications is a highly active front of current Computational Intelligence science that is addressed here. Other subjects in this volume are modern Machine Learning, Lattice Computing and Mathematical Morphology. The wide scope and high quality of these contributions clearly show that knowledge engineering is a continuous living and evolving set of technologies aimed at improving the design and understanding of systems and their relations with humans. *Domain-Specific Knowledge Graph Construction* Elsevier
This open access book is part of the

LAMBDA Project (Learning, Applying, Multiplying Big Data Analytics), funded by the European Union, GA No. 809965. Data Analytics involves applying algorithmic processes to derive insights. Nowadays it is used in many industries to allow organizations and companies to make better decisions as well as to verify or disprove existing theories or models. The term data analytics is often used interchangeably with intelligence, statistics, reasoning, data mining, knowledge discovery, and others. The goal of this book is to introduce some of the definitions, methods, tools, frameworks, and solutions for big data processing, starting from the process of information extraction and knowledge representation, via knowledge processing and analytics to visualization,

sense-making, and practical applications. Each chapter in this book addresses some pertinent aspect of the data processing chain, with a specific focus on understanding Enterprise Knowledge Graphs, Semantic Big Data Architectures, and Smart Data Analytics solutions. This book is addressed to graduate students from technical disciplines, to professional audiences following continuous education short courses, and to researchers from diverse areas following self-study courses. Basic skills in computer science, mathematics, and statistics are required.

21st International Conference on Conceptual Structures, ICCS 2014, Iași, Romania, July 27-30, 2014, Proceedings
PediaPress

RDF-based knowledge graphs require

additional formalisms to be fully context-aware, which is presented in this book. This book also provides a collection of provenance techniques and state-of-the-art metadata-enhanced, provenance-aware, knowledge graph-based representations across multiple application domains, in order to demonstrate how to combine graph-based data models and provenance representations. This is important to make statements authoritative, verifiable, and reproducible, such as in biomedical, pharmaceutical, and cybersecurity applications, where the data source and generator can be just as important as the data itself. Capturing provenance is critical to ensure sound experimental results and rigorously designed research studies for patient

and drug safety, pathology reports, and medical evidence generation. Similarly, provenance is needed for cyberthreat intelligence dashboards and attack maps that aggregate and/or fuse heterogeneous data from disparate data sources to differentiate between unimportant online events and dangerous cyberattacks, which is demonstrated in this book. Without provenance, data reliability and trustworthiness might be limited, causing data reuse, trust, reproducibility and accountability issues. This book primarily targets researchers who utilize knowledge graphs in their methods and approaches (this includes researchers from a variety of domains, such as cybersecurity, eHealth, data science, Semantic Web, etc.). This book collects

core facts for the state of the art in provenance approaches and techniques, complemented by a critical review of existing approaches. New research directions are also provided that combine data science and knowledge graphs, for an increasingly important research topic.

Computer Science Springer

The two volumes LNCS 10249 and 10250 constitute the refereed proceedings of the 14th International Semantic Web Conference, ESWC 2017, held in Portorož, Slovenia. The 51 revised full papers presented were carefully reviewed and selected from 183 submissions. In addition, 10 PhD papers are included, selected out of 14 submissions. The papers are organized in the following tracks: semantic data

management, big data, and scalability; linked data; machine learning; mobile web, sensors, and semantic streams; natural language processing and information retrieval; vocabularies, schemas, and ontologies; reasoning; social web and web science; semantic web and transparency; in use and industrial track; and PhD symposium.

The paper 'Linked Data Notifications: A Resource-Centric Communication Protocol' is published open access under a CC BY 4.0 license at link.springer.com.

17th International Conference on Conceptual Structures, ICCS 2009, Moscow, Russia, July 26-31, 2009, Proceedings BoD - Books on Demand

The two-volume set LNCS 10587 + 10588 constitutes the refereed proceedings of the 16th International

Semantic Web Conference, ISWC 2017, held in Vienna, Austria, in October 2017. ISWC 2017 is the premier international forum, for the Semantic Web / Linked Data Community. The total of 55 full and 21 short papers presented in this volume were carefully reviewed and selected from 300 submissions. They are organized according to the tracks that were held: Research Track; Resource Track; and In-Use Track.

Computational Systems Bioinformatics
Springer Nature

The two-volume set LNAI 7629 and LNAI 7630 constitutes the refereed proceedings of the 11th Mexican International Conference on Artificial Intelligence, MICAI 2012, held in San Luis Potosí, Mexico, in October/November 2012. The 80 revised papers presented

were carefully reviewed and selected from 224 submissions. The second volume includes 40 papers focusing on soft computing. The papers are organized in the following topical sections: natural language processing; evolutionary and nature-inspired metaheuristic algorithms; neural networks and hybrid intelligent systems; fuzzy systems and probabilistic models in decision making.

(Volume 7) Springer

This book contains substantially extended and revised versions of the best papers from the 15th International Conference on Enterprise Information Systems, ICEIS 2013, held in Angers, France, in July 2013. The 29 full and two invited papers included in this volume were carefully reviewed and selected

from 321 submissions. They reflect state-of-the-art research focusing mainly on real-world applications and highlight the benefits of information systems and technology for industry and services, thus connecting academia with the world of real enterprises. The topics covered are: databases and information systems integration, artificial intelligence and decision support systems, information systems analysis and specification, software agents and Internet computing, human-computer interaction, and enterprise architecture.

Conceptual Structures for Discovering Knowledge Springer Nature

As knowledge economies become increasingly important around the world, it is essential that organizations are able to transform their knowledge into a

competitive advantage. This textbook offers an interdisciplinary approach to knowledge management written specifically for postgraduate students in business and management schools. Knowledge Management presents classic and advanced concepts, models and frameworks using a clear logical structure, which covers building knowledge competence, the knowledge lifecycle, and integration of knowledge management with business decision making. An overall framework illustrates links between chapters and ensures readers can gain a body of actionable knowledge rather than learning isolated, uncontextualized topics. Based on cutting-edge research findings and covering the most advanced IT and IS technologies, this book emphasises the

need for knowledge management to span boundaries across organizations, supply chains and partnerships, rather than being limited to individual learning and sharing within businesses. Knowledge Management is international in scope and includes real world case studies and role play scenarios to show how theories are applied in practice, and "think back" and "critique discussion" questions to encourage reflective learning and critical thinking. This indispensable text provides a dynamic picture of the evolution of knowledge management and demonstrates its full potential to enable better business decisions. Accompanying online resources include PowerPoint slides for lecturers and exercise questions for students.

A Compendium Springer

This proceedings volume contains 29 papers covering many of the latest developments in the fast-growing field of bioinformatics. The contributions span a wide range of topics, including computational genomics and genetics, protein function and computational proteomics, the transcriptome, structural bioinformatics, microarray data analysis, motif identification, biological pathways and systems, and biomedical applications. The papers not only cover theoretical aspects of bioinformatics but also delve into the application of new methods, with input from computation, engineering and biology disciplines. This multidisciplinary approach to bioinformatics gives these proceedings a unique viewpoint of the field. Contents:

Voting Algorithms for the Motif Finding Problem (X-W Liu et al.)MSDash: Mass Spectrometry Database and Search (Z Wu et al.)GaborLocal: Peak Detection in Mass Spectrum by Gabor Filters and Gaussian Local Maxima (N Nguyen et al.)Designing Secondary Structure Profiles for Fast ncRNA Identification (Y Sun & J Buhler)Iterative Non-sequential Protein Structural Alignment (S Salem & M J Zaki)Consistent Alignment of Metabolic Pathways Without Abstraction (F Ay et al.)On the Accurate Construction of Consensus Genetic Maps (Y-H Wu et al.)Graph Wavelet Alignment Kernels for Drug Virtual Screening (A Smalter et al.)and other papers Readership: Graduate students, postdoctoral fellows, researchers, and practitioners in the field of bioinformatics and systems biology;

biotech and pharmaceutical companies; computational scientists and engineers interested in biology.

Keywords:Bioinformatics;Computational Systems Biology;Computational Techniques;Systems Biology

ProblemsKey Features:The CSB meetings accept only the highest-quality research papers, with a paper-acceptance rate of below 20%The CSB meetings represent a unique bioinformatics conference in which papers blend bioinformatic tool development with in silico biologyCSB meetings have become one of the most well-attended bioinformatics conferencesCSB proceedings are indexed by Medline

26th International Conference on Conceptual Structures, ICCS 2021, Virtual Event, September 20-22,

2021, Proceedings Springer

This book constitutes the thoroughly refereed post-conference proceedings of the Second International Workshop on Graph Structures for Knowledge Representation and Reasoning, GKR 2011, held in Barcelona, Spain, in July 2011 as satellite event of IJCAI 2011, the 22nd International Joint Conference on Artificial Intelligence. The 7 revised full papers presented together with 1 invited paper were carefully reviewed and selected from 12 submissions. The papers feature current research involved in the development and application of graph-based knowledge representation formalisms and reasoning techniques and investigate further developments of knowledge representation and reasoning graph based techniques. Topics

addressed are such as: bayesian networks, semantic networks, conceptual graphs, formal concept analysis, cp-nets, gai-nets, euler diagrams, existential graphs all of which have been successfully used in a number of applications (semantic Web, recommender systems, bioinformatics etc.).

Advances in Computational Intelligence Springer Science & Business Media

Nowadays, graph theory is an important analysis tool in mathematics and computer science. Because of the inherent simplicity of graph theory, it can be used to model many different physical and abstract systems such as transportation and communication networks, models for business

administration, political science, and psychology and so on. The purpose of this book is not only to present the latest state and development tendencies of graph theory, but to bring the reader far enough along the way to enable him to embark on the research problems of his own. Taking into account the large amount of knowledge about graph theory and practice presented in the book, it has two major parts: theoretical researches and applications. The book is also intended for both graduate and postgraduate students in fields such as mathematics, computer science, system sciences, biology, engineering, cybernetics, and social sciences, and as a reference for software professionals and practitioners.

Knowledge Management Springer

Nature

Graph-based Knowledge
Representation Computational
Foundations of Conceptual
Graphs Springer Science & Business
Media

Graph Structures for Knowledge
Representation and Reasoning Springer
Science & Business Media

This open access book provides an overview of the recent advances in representation learning theory, algorithms and applications for natural language processing (NLP). It is divided into three parts. Part I presents the representation learning techniques for multiple language entries, including words, phrases, sentences and documents. Part II then introduces the representation techniques for those

objects that are closely related to NLP, including entity-based world knowledge, sememe-based linguistic knowledge, networks, and cross-modal entries. Lastly, Part III provides open resource tools for representation learning techniques, and discusses the remaining challenges and future research directions. The theories and algorithms of representation learning presented can also benefit other related domains such as machine learning, social network analysis, semantic Web, information retrieval, data mining and computational biology. This book is intended for advanced undergraduate and graduate students, post-doctoral fellows, researchers, lecturers, and industrial engineers, as well as anyone interested in representation learning and natural

language processing.

Enterprise Information Systems Springer

This book constitutes the proceedings of the 26th International Conference on Conceptual Structures, ICCS 2021, held virtually in September 2021. The 12 full papers and 4 short papers presented were carefully reviewed and selected from 25 submissions. The papers focus on the representation of and reasoning with conceptual structures in a variety of contexts. The papers are organized in the following topical sections: applications of conceptual structures; theory on conceptual structures, and mining conceptual structures.

[Graph Representation Learning](#)
PediaPress

The KES-IDT-2016 proceedings give an excellent insight into recent research,

both theoretical and applied, in the field of intelligent decision making. The range of topics explored is wide, and covers methods of grouping, classification, prediction, decision support, modelling and many more in such areas as finance, linguistics, medicine, management and transportation. This proceedings contain several sections devoted to specific topics, such as:

- Specialized Decision Techniques for Data Mining,
- Transportation and Project Management
- Pattern Recognition for Decision Making Systems
- New Advances of Soft Computing in Industrial and Management Engineering
- Recent Advances in Fuzzy Systems
- Intelligent Data Analysis and Applications
- Reasoning-based Intelligent Systems
- Intelligent Methods for Eye Movement

- Data Processing and Analysis
- Intelligent Decision Technologies for Water Resources Management
- Intelligent Decision Making for Uncertain Unstructured Big Data
- Decision Making Theory for Economics
- Interdisciplinary Approaches in Business Intelligence Research and Practice
- Pattern Recognition in Audio and Speech Processing

The KES-IDT conference is a well-established international annual conference, interdisciplinary in nature. These two volumes of proceedings form an excellent account of the latest results and outcomes of recent research in this leading-edge area.

Computational Intelligence and Its Applications in Healthcare Morgan & Claypool Publishers

The Knowledge Seeker is a useful

system to develop various intelligent applications such as ontology-based search engine, ontology-based text classification system, ontological agent system, and semantic web system etc. The Knowledge Seeker contains four different ontological components. First, it defines the knowledge representation model ;V Ontology Graph. Second, an ontology learning process that based on chi-square statistics is proposed for automatic learning an Ontology Graph from texts for different domains. Third, it defines an ontology generation method that transforms the learning outcome to the Ontology Graph format for machine

processing and also can be visualized for human validation. Fourth, it defines different ontological operations (such as similarity measurement and text classification) that can be carried out with the use of generated Ontology Graphs. The final goal of the KnowledgeSeeker system framework is that it can improve the traditional information system with higher efficiency. In particular, it can increase the accuracy of a text classification system, and also enhance the search intelligence in a search engine. This can be done by enhancing the system with machine processable ontology.

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