

A Fuzzy Ontology Based Semantic Data Integration System

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New Trends in Databases and Information

Systems - Tatjana Welzer 2019-09-03

This book constitutes the thoroughly refereed short papers, workshops and doctoral consortium papers of the 23rd European Conference on Advances in Databases and Information Systems, ADBIS 2019, held in Bled, Slovenia, in September 2019. The 19 short research papers and the 5 doctoral consortium papers were carefully reviewed and selected from 103 submissions, and the 31 workshop papers were selected out of 67 submitted papers. The papers are organized in the following sections: Short

Papers; Workshops Papers; Doctoral Consortium Papers; and cover a wide spectrum of topics related to database and information systems technologies for advanced applications.

Intelligent Computing Applications for Sustainable Real-World Systems - Manjaree Pandit 2020-04-03

This book delves into various solution paradigms such as artificial neural network, support vector machine, wavelet transforms, evolutionary computing, swarm intelligence. During the last decade, novel solution technologies based on human and species intelligence have gained

immense popularity due to their flexible and unconventional approach. New analytical tools are also being developed to handle big data processing and smart decision making. The idea behind compiling this work is to familiarize researchers, academicians, industry persons and students with various applications of intelligent techniques for producing sustainable, cost-effective and robust solutions of frequently encountered complex, real-world problems in engineering and science disciplines. The practical problems in smart grids, communication, waste management, elimination of harmful elements

from nature, etc., are identified, and smart and optimal solutions are proposed.

Affective Computing and Intelligent Interaction -
Jia Luo 2012-01-25

2012 International Conference on Affective Computing and Intelligent Interaction (ICACII 2012) was the most comprehensive conference focused on the various aspects of advances in Affective Computing and Intelligent Interaction. The conference provided a rare opportunity to bring together worldwide academic researchers and practitioners for exchanging the latest developments and applications in this field such

as Intelligent Computing, Affective Computing, Machine Learning, Business Intelligence and HCI. This volume is a collection of 119 papers selected from 410 submissions from universities and industries all over the world, based on their quality and relevancy to the conference. All of the papers have been peer-reviewed by selected experts.

Journal on Data Semantics VI - Stefano

Spaccapietra 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 specifically 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 journal. 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, focusing on a specific 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 first volume in 2003 (LNCS 2800), its second volume 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 Information Systems, coordinated by guest editor Esteban Zimanyi.

Principles of Social Networking - Anupam Biswas
2021-08-18

This book presents new and innovative current discoveries in social networking which contribute enough knowledge to the research community. The book includes chapters presenting research advances in social network analysis and issues emerged with diverse social media data. The

book also presents applications of the theoretical algorithms and network models to analyze real-world large-scale social networks and the data emanating from them as well as characterize the topology and behavior of these networks.

Furthermore, the book covers extremely debated topics, surveys, future trends, issues, and challenges.

Digital Transformation in Semiconductor Manufacturing - Sophia Keil 2020-01-01

This open access book reports on cutting-edge electrical engineering and microelectronics solutions to foster and support digitalization in the

semiconductor industry. Based on the outcomes of the European project iDev40, which were presented at the two first conference editions of the European Advances in Digital Transformation Conference (EADCT 2018 and EADTC 2019), the book covers different, multidisciplinary aspects related to digital transformation, including technological and industrial developments, as well as human factors research and applications.

Topics include modeling and simulation methods in semiconductor operations, supply chain management issues, employee training methods and workplaces optimization, as well as smart

software and hardware solutions for semiconductor manufacturing. By highlighting industrially relevant developments and discussing open issues related to digital transformation, the book offers a timely, practice-oriented guide to graduate students, researchers and professionals interested in the digital transformation of manufacturing domains and work environments.

Semantic and Fuzzy Modelling for Human Behaviour Recognition in Smart Spaces - N. Díaz Rodríguez 2016-06-08

One of the major limitations of the Ambient Intelligent Systems today is the lack of semantic

models of those activities on the environment, so that the system can recognize the specific activity being performed by the user(s) and act accordingly. In this context, this thesis addresses the general problem of knowledge representation in Smart Spaces. The main objective is to develop knowledge-based models, equipped with semantics to learn, infer and monitor human behaviours in Smart Spaces. Moreover, it is easy to recognize that some aspects of this problem have a high degree of uncertainty, and therefore, the developed models must be equipped with mechanisms to manage this type of information.

As an added value, this system should be sufficiently simple and flexible to be managed by non-expert users, and thus, facilitate the transfer of research to industry. To do this, we develop graphical models to represent human behaviour in Smart Spaces, in order to provide them with more usability in the final application. As a result, human behaviour recognition can help assisting people with special needs such as independent elders, in remote rehabilitation monitoring, industrial process guidelines, and many other cases.

Proceedings of IAC-ElAT 2014 - collective of

authors 2014-12-02

Conference proceedings - International Academic Conference on Engineering, Internet and Technology in Prague 2014 (IAC-ElAT 2014 in Prague), Friday - Saturday, December 12 - 13, 2014

Pervasive Computing and the Networked World - Qiaohong Zu 2013-03-14

This book constitutes the refereed post-proceedings of the Joint International Conference on Pervasive Computing and the Networked World, ICPCA-SWS 2012, held in Istanbul, Turkey, in November 2012. This conference is a

merger of the 7th International Conference on Pervasive Computing and Applications (ICPCA) and the 4th Symposium on Web Society (SWS). The 53 revised full papers and 26 short papers presented were carefully reviewed and selected from 143 submissions. The papers cover a wide range of topics from different research communities such as computer science, sociology and psychology and explore both theoretical and practical issues in and around the emerging computing paradigms, e.g., pervasive collaboration, collaborative business, and networked societies. They highlight the unique

characteristics of the "everywhere" computing paradigm and promote the awareness of its potential social and psychological consequences.

Advances in Ontology Design and Patterns - K. Hammar 2017-12-27

The study of patterns in the context of ontology engineering for the semantic web was pioneered more than a decade ago by Blomqvist, Sandkuhl and Gangemi. Since then, this line of research has flourished and led to the development of ontology design patterns, knowledge patterns, and linked data patterns: the patterns as they are known by ontology designers, knowledge

engineers, and linked data publishers, respectively. A key characteristic of those patterns is that they are modular and reusable solutions to recurrent problems in ontology engineering and linked data publishing. This book contains recent contributions which advance the state of the art on theory and use of ontology design patterns. The papers collected in this book cover a range of topics, from a method to instantiate content patterns, a proposal on how to document a content pattern, to a number of patterns emerging in ontology modeling in various situations.

The Impact of Digital Technologies on Public Health in Developed and Developing Countries -

Mohamed Jmaiel 2020-01-01

This open access book constitutes the refereed proceedings of the 18th International Conference on String Processing and Information Retrieval, ICOST 2020, held in Hammamet, Tunisia, in June 2020.* The 17 full papers and 23 short papers presented in this volume were carefully reviewed and selected from 49 submissions. They cover topics such as: IoT and AI solutions for e-health; biomedical and health informatics; behavior and activity monitoring; behavior and activity

monitoring; and wellbeing technology. *This conference was held virtually due to the COVID-19 pandemic.

Semantic Sentiment Analysis in Social Streams -

H. Saif 2017-06-12

Microblogs and social media platforms are now considered among the most popular forms of online communication. Through a platform like Twitter, much information reflecting people's opinions and attitudes is published and shared among users on a daily basis. This has recently brought great opportunities to companies interested in tracking and monitoring the

reputation of their brands and businesses, and to policy makers and politicians to support their assessment of public opinions about their policies or political issues. A wide range of approaches to sentiment analysis on social media, have been recently built. Most of these approaches rely mainly on the presence of affect words or syntactic structures that explicitly and unambiguously reflect sentiment. However, these approaches are semantically weak, that is, they do not account for the semantics of words when detecting their sentiment in text. In order to address this problem, the author investigates the

role of word semantics in sentiment analysis of microblogs. Specifically, Twitter is used as a case study of microblogging platforms to investigate whether capturing the sentiment of words with respect to their semantics leads to more accurate sentiment analysis models on Twitter. To this end, the author proposes several approaches in this book for extracting and incorporating two types of word semantics for sentiment analysis: contextual semantics (i.e., semantics captured from words' co-occurrences) and conceptual semantics (i.e., semantics extracted from external knowledge sources). Experiments are conducted

with both types of semantics by assessing their impact in three popular sentiment analysis tasks on Twitter; entity-level sentiment analysis, tweet-level sentiment analysis and context-sensitive sentiment lexicon adaptation. The findings from this body of work demonstrate the value of using semantics in sentiment analysis on Twitter. The proposed approaches, which consider word semantics for sentiment analysis at both entity and tweet levels, surpass non-semantic approaches in most evaluation scenarios. This book will be of interest to students, researchers and practitioners in the semantic sentiment

analysis field.

Handbook of Research on Digital Libraries:

Design, Development, and Impact - Theng, Yin-

Leng 2009-02-28

"This book is an in-depth collection aimed at developers and scholars of research articles from the expanding field of digital libraries"--Provided by publisher.

Ontology-Based Information Retrieval for

Healthcare Systems - Vishal Jain 2020-07-28

With the advancements of semantic web, ontology has become the crucial mechanism for representing concepts in various domains. For

research and dispersal of customized healthcare services, a major challenge is to efficiently retrieve and analyze individual patient data from a large volume of heterogeneous data over a long time span. This requirement demands effective ontology-based information retrieval approaches for clinical information systems so that the pertinent information can be mined from large amount of distributed data. This unique and groundbreaking book highlights the key advances in ontology-based information retrieval techniques being applied in the healthcare domain and covers the following areas: Semantic data

integration in e-health care systems Keyword-based medical information retrieval Ontology-based query retrieval support for e-health implementation Ontologies as a database management system technology for medical information retrieval Information integration using contextual knowledge and ontology merging Collaborative ontology-based information indexing and retrieval in health informatics An ontology-based text mining framework for vulnerability assessment in health and social care An ontology-based multi-agent system for matchmaking patient healthcare monitoring A

multi-agent system for querying heterogeneous data sources with ontologies for reducing cost of customized healthcare systems A methodology for ontology based multi agent systems development Ontology based systems for clinical systems: validity, ethics and regulation Providing Semantic Links to the Invisible Geospatial Web - Francisco Javier López Pellicer 2012 **Proceedings of the First International Scientific Conference “Intelligent Information Technologies for Industry” (IITI’16)** - Ajith Abraham

2016-05-10

This volume of *Advances in Intelligent Systems and Computing* contains papers presented in the main track of IITI 2016, the First International Conference on Intelligent Information Technologies for Industry held in May 16-21 in Sochi, Russia. The conference was jointly co-organized by Rostov State Transport University (Russia) and VŠB – Technical University of Ostrava (Czech Republic) with the participation of Russian Association for Artificial Intelligence (RAAI) and Russian Association for Fuzzy Systems and Soft Computing (RAFSSC). The

volume is devoted to practical models and industrial applications related to intelligent information systems. The conference has been a meeting point for researchers and practitioners to enable the implementation of advanced information technologies into various industries. Nevertheless, some theoretical talks concerning the-state-of-the-art in intelligent systems and soft computing are included in the proceedings as well.

[Handbook of Research on Web Information Systems Quality](#) - Calero, Coral 2008-02-28

Web information systems engineering resolves

the multifaceted issues of Web-based systems development; however, as part of an emergent yet prolific industry, Web site quality assurance is a continually adaptive process needing a comprehensive reference tool to merge all cutting-edge research and innovations. The Handbook of Research on Web Information Systems Quality integrates 30 authoritative contributions by 72 of the world's leading experts on the models, measures, and methodologies of Web information systems, software quality, and Web engineering into one practical guide to Web information systems quality, making this

handbook of research an essential addition to all library collections.

Data Warehousing Design and Advanced Engineering Applications: Methods for Complex Construction - Bellatreche, Ladjel 2009-08-31

Data warehousing and online analysis technologies have shown their effectiveness in managing and analyzing a large amount of disparate data, attracting much attention from numerous research communities. Data Warehousing Design and Advanced Engineering Applications: Methods for Complex Construction covers the complete process of analyzing data to

extract, transform, load, and manage the essential components of a data warehousing system. A defining collection of field discoveries, this advanced title provides significant industry solutions for those involved in this distinct research community.

Semantic Models in IoT and eHealth Applications

- Sanju Mishra Tiwari 2022-10-01

Semantic Models in IoT and eHealth Applications explores the key role of semantic web modeling in eHealth technologies, including remote monitoring, mobile health, cloud data and biomedical ontologies. The book explores

different challenges and issues through the lens of various case studies of healthcare systems currently adopting these technologies. Chapters introduce the concepts of semantic interoperability within a healthcare model setting and explore how semantic representation is key to classifying, analyzing and understanding the massive amounts of biomedical data being generated by connected medical devices. Continuous health monitoring is a strong solution which can provide eHealth services to a community through the use of IoT-based devices that collect sensor data for efficient health diagnosis, monitoring and

treatment. All of this collected data needs to be represented in the form of ontologies which are considered the cornerstone of the Semantic Web for knowledge sharing, information integration and information extraction. Presents comprehensive coverage of advances in the application of semantic web in the field of eHealth Explores different challenges and issues through various case studies of healthcare systems that are adopting semantic web technologies Covers applications across a range of eHealth technologies, including remote monitoring and mobile health

Fuzzy Knowledge Management for the Semantic Web - Zongmin Ma 2013-09-28

This book goes to great depth concerning the fast growing topic of technologies and approaches of fuzzy logic in the Semantic Web. The topics of this book include fuzzy description logics and fuzzy ontologies, queries of fuzzy description logics and fuzzy ontology knowledge bases, extraction of fuzzy description logics and ontologies from fuzzy data models, storage of fuzzy ontology knowledge bases in fuzzy databases, fuzzy Semantic Web ontology mapping, and fuzzy rules and their interchange in

the Semantic Web. The book aims to provide a single record of current research in the fuzzy knowledge representation and reasoning for the Semantic Web. The objective of the book is to provide the state of the art information to researchers, practitioners and graduate students of the Web intelligence and at the same time serve the knowledge and data engineering professional faced with non-traditional applications that make the application of conventional approaches difficult or impossible.

Computational Science – ICCS 2020 - Valeria V. Krzhizhanovskaya 2020-06-19

The seven-volume set LNCS 12137, 12138, 12139, 12140, 12141, 12142, and 12143 constitutes the proceedings of the 20th International Conference on Computational Science, ICCS 2020, held in Amsterdam, The Netherlands, in June 2020.* The total of 101 papers and 248 workshop papers presented in this book set were carefully reviewed and selected from 719 submissions (230 submissions to the main track and 489 submissions to the workshops). The papers were organized in topical sections named: Part I: ICCS Main Track Part II: ICCS Main Track Part III: Advances in High-

Performance Computational Earth Sciences:
Applications and Frameworks; Agent-Based
Simulations, Adaptive Algorithms and Solvers;
Applications of Computational Methods in Artificial
Intelligence and Machine Learning; Biomedical
and Bioinformatics Challenges for Computer
Science Part IV: Classifier Learning from Difficult
Data; Complex Social Systems through the Lens
of Computational Science; Computational Health;
Computational Methods for Emerging Problems in
(Dis-)Information Analysis Part V: Computational
Optimization, Modelling and Simulation;
Computational Science in IoT and Smart

Systems; Computer Graphics, Image Processing
and Artificial Intelligence Part VI: Data Driven
Computational Sciences; Machine Learning and
Data Assimilation for Dynamical Systems;
Meshfree Methods in Computational Sciences;
Multiscale Modelling and Simulation; Quantum
Computing Workshop Part VII: Simulations of
Flow and Transport: Modeling, Algorithms and
Computation; Smart Systems: Bringing Together
Computer Vision, Sensor Networks and Machine
Learning; Software Engineering for Computational
Science; Solving Problems with Uncertainties;
Teaching Computational Science; UNcErtainty

QUantificatiOn for ComputationAI modeLs *The conference was canceled due to the COVID-19 pandemic. Chapter 'APE: A Command-Line Tool and API for Automated Workflow Composition' is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

Semantic Knowledge Management: An Ontology-Based Framework - Zilli, Antonio 2008-08-31

"This book addresses the Semantic Web from an operative point of view using theoretical approaches, methodologies, and software applications as innovative solutions to true

knowledge management"--Provided by publisher.

Computer and Information Technology - Prasad Yarlagadda 2014-02-06

Collection of selected, peer reviewed papers from the International Forum on Computer and Information Technology (IFCIT 2013), December 24-25, 2013, Shenzhen, China. Volume is indexed by Thomson Reuters CPCI-S (WoS). The 335 papers are grouped as follows: Chapter 1: Databases, Data Processing and Data Management, Chapter 2: Parallel and Distributed Computing, Chapter 3: Computer Network Technology and Applications, Chapter 4: Software

Engineering, Chapter 5: E-Commerce and E-Government, Chapter 6: Multimedia Technology and Application, Chapter 7: Computer Vision and Image Processing Technology, Chapter 8: Artificial Intelligence, Intelligent Algorithms and Computational Mathematics, Chapter 9: Computer Aided Design and Research, Chapter 10: Communications Technology and Signal Processing, Chapter 11: Electronic Devices and Embedded Systems, Chapter 12: Intelligent Instruments, Techniques for Detection and Testing, Sensors and Measurement, Chapter 13: Automation and Control, Chapter 14: Information

Technologies in Engineering Management, Chapter 15: Enterprise Resource Planning and Management System, Chapter 16: Information Technologies in Education

Database Technologies: Concepts, Methodologies, Tools, and Applications - Erickson, John
2009-02-28

"This reference expands the field of database technologies through four-volumes of in-depth, advanced research articles from nearly 300 of the world's leading professionals"--Provided by publisher.

Hybrid Artificial Intelligent Systems - Francisco

Martínez-Álvarez 2016-04-14

This volume constitutes the refereed proceedings of the 11th International Conference on Hybrid Artificial Intelligent Systems, HAIS 2016, held in Seville, Spain, in April 2016. The 63 full papers published in this volume were carefully reviewed and selected from 150 submissions. They are organized in topical sections on data mining and knowledge discovery; time series; bio-inspired models and evolutionary computation; learning algorithms; video and image; classification and cluster analysis; applications; bioinformatics; and hybrid intelligent systems for data mining and

applications.

Fuzzy Systems and Data Mining VII - C. Shen
2021-11-04

Fuzzy systems and data mining are indispensable aspects of the computer systems and algorithms on which the world has come to depend. This book presents papers from FSDM 2021, the 7th International Conference on Fuzzy Systems and Data Mining. The conference, originally due to take place in Seoul, South Korea, was held online on 26-29 October 2021, due to ongoing restrictions connected with the COVID-19 pandemic. The annual FSDM conference

provides a platform for knowledge exchange between international experts, researchers, academics and delegates from industry. This year, the committee received 266 submissions, and this book contains 52 papers, including keynotes and invited presentations, oral and poster contributions. The papers cover four main areas: 1) fuzzy theory, algorithms and systems – including topics like stability; 2) fuzzy applications – which are widely used and cover various types of processing as well as hardware and architecture for big data and time series; 3) the interdisciplinary field of fuzzy logic and data

mining; and 4) data mining itself. The topic most frequently addressed this year is fuzzy systems. The book offers an overview of research and developments in fuzzy logic and data mining, and will be of interest to all those working in the field of data science.

Semantic Search for Novel Information - M.

Färber 2017-07-18

In this book, new approaches are presented for detecting and extracting simultaneously relevant and novel information from unstructured text documents. A major contribution of these approaches is that the information already

provided and the extracted information are modeled semantically. This leads to the following benefits: (a) ambiguities in the language can be resolved; (b) the exact information needs regarding relevance and novelty can be specified; and (c) knowledge graphs can be incorporated. More specifically, this book presents the following scientific contributions: 1. An assessment of the suitability of existing large knowledge graphs (namely, DBpedia, Freebase, OpenCyc, Wikidata, and YAGO) for the task of detecting novel information in text documents. 2. A description of an approach by which emerging entities that are

missing in a knowledge graph are detected in a stream of text documents. 3. A suggestion for an approach to extracting novel, relevant, semantically-structured statements from text documents. The developed approaches are suitable for the recommendation of emerging entities and novel statements respectively, for the purpose of knowledge graph population, and for providing assistance to users requiring novel information, such as journalists and technology scouts.

Methods in Biomedical Informatics - Indra Neil
Sarkar 2013-09-03

Beginning with a survey of fundamental concepts associated with data integration, knowledge representation, and hypothesis generation from heterogeneous data sets, *Methods in Biomedical Informatics* provides a practical survey of methodologies used in biological, clinical, and public health contexts. These concepts provide the foundation for more advanced topics like information retrieval, natural language processing, Bayesian modeling, and learning classifier systems. The survey of topics then concludes with an exposition of essential methods associated with engineering, personalized

medicine, and linking of genomic and clinical data. Within an overall context of the scientific method, *Methods in Biomedical Informatics* provides a practical coverage of topics that is specifically designed for: (1) domain experts seeking an understanding of biomedical informatics approaches for addressing specific methodological needs; or (2) biomedical informaticians seeking an approachable overview of methodologies that can be used in scenarios germane to biomedical research. Contributors represent leading biomedical informatics experts: individuals who have demonstrated effective use

of biomedical informatics methodologies in the real-world, high-quality biomedical applications. Material is presented as a balance between foundational coverage of core topics in biomedical informatics with practical "in-the-trenches" scenarios. Contains appendices that function as primers on: (1) Unix; (2) Ruby; (3) Databases; and (4) Web Services.

Semantic Web Technologies - Archana Patel
2022-10-17

Semantic web technologies (SWTs) offer the richest machine-interpretable (rather than just machine-processable) and explicit semantics that

are being extensively used in various domains and industries. This book provides a roadmap for semantic web technologies (SWTs) and highlights their role in a wide range of domains including cloud computing, Internet of Things, big data, sensor network, and so forth. It also explores the prospects of these technologies including different data interchange formats, query languages, ontologies, Linked Data, and notations. The role of SWTs in 'epidemic Covid-19', 'e-learning platforms and systems', 'block chain', 'open online courses', and 'visual analytics in healthcare' is described as well. This book:

Explores all the critical aspects of semantic web technologies (SWTs) Discusses the impact of SWTs on cloud computing, Internet of Things, big data, and sensor network Offers a comprehensive examination of the emerging research in the areas of SWTs and their related domains Provides a template to develop a wide range of smart and intelligent applications Includes latest applications and examples with real data This book is aimed at researchers and graduate students in computer science, informatics, web technology, cloud computing, and Internet of Things.

GeoSpatial Semantics - Frederico Fonseca

2007-11-17

This book constitutes the refereed proceedings of the Second International Conference on GeoSpatial Semantics, GeoS 2007, held in Mexico City, Mexico, in November 2007. The papers are organized in topical sections on models and languages for geo-ontologies, alignment and integration of geo-ontologies, ontology-based spatial information retrieval, formal representation for geospatial data, and integration of semantics into spatial query processing.

Database and Expert Systems Applications -

Abdelkader Hameurlain 2011-08-19

This book constitutes the refereed proceedings of the 22 International Conference on Database and Expert Systems Applications, DEXA 2011, held in Toulouse, France, August 29 - September 2, 2011. The 52 revised full papers and 40 short papers presented were carefully reviewed and selected from 207 submissions. The papers are organized in topical sections on XML querying and views; data mining; queries and search; semantic web; information retrieval; business applications; user support; indexing; queries,

views and data warehouses; ontologies; physical aspects of databases; Design; distribution; miscellaneous topics.

Uncertainty Reasoning for the Semantic Web I -

Paulo Cesar G. Costa 2008-11-30

This book constitutes the thoroughly refereed first three workshops on Uncertainty Reasoning for the Semantic Web (URSW), held at the International Semantic Web Conferences (ISWC) in 2005, 2006, and 2007. The 22 papers presented are revised and strongly extended versions of selected workshops papers as well as invited contributions from leading experts in the

field and closely related areas. The present volume represents the first comprehensive compilation of state-of-the-art research approaches to uncertainty reasoning in the context of the semantic Web, capturing different models of uncertainty and approaches to deductive as well as inductive reasoning with uncertain formal knowledge.

Modern Approaches for Intelligent Information and Database Systems - Andrzej Sieminski

2018-02-23

This book offers a unique blend of reports on both theoretical models and their applications in

the area of Intelligent Information and Database Systems. The reports cover a broad range of research topics, including advanced learning techniques, knowledge engineering, Natural Language Processing (NLP), decision support systems, Internet of things (IoT), computer vision, and tools and techniques for Intelligent Information Systems. They are extended versions of papers presented at the ACIIDS 2018 conference (10th Asian Conference on Intelligent Information and Database Systems), which was held in Dong Hoi City, Vietnam on 19–21 March 2018. What all researchers and students of

computer science need is a state-of-the-art report on the latest trends in their respective areas of interest. Over the years, researchers have proposed increasingly complex theoretical models, which provide the theoretical basis for numerous applications. The applications, in turn, have a profound influence on virtually every aspect of human activities, while also allowing us to validate the underlying theoretical concepts.

Proceedings of the Sixth International Scientific Conference “Intelligent Information Technologies for Industry” (IITI’22) - Sergey Kovalev

2022-12-01

This book contains the works connected with the key advances in Intelligent Information Technologies for Industry presented in the main track of IITI 2022, the Sixth International Scientific Conference on Intelligent Information Technologies for Industry held on October 31 - November 6, 2022, in Istanbul, Turkey. The works were written by the experts in the field of artificial intelligence including topics such as machine learning, decision making intelligent systems, fuzzy logic, bioinspired systems and Bayesian networks. The following industrial application domains were touched: railway automation,

intelligent medical systems, flexible socio-technical systems, navigation systems and energetic systems. The editors believe that this book will be helpful for all scientists and engineers interested in the modern state of applied artificial intelligence.

Semantic Data Mining - A. Ławrynowicz

2017-04-18

Ontologies are now increasingly used to integrate, and organize data and knowledge, particularly in data and knowledge-intensive applications in both research and industry. The book is devoted to semantic data mining – a data mining approach

where domain ontologies are used as background knowledge, and where the new challenge is to mine knowledge encoded in domain ontologies and knowledge graphs, rather than only purely empirical data. The introductory chapters of the book provide theoretical foundations of both data mining and ontology representation. Taking a unified perspective, the book then covers several methods for semantic data mining, addressing tasks such as pattern mining, classification and similarity-based approaches. It attempts to provide state-of-the-art answers to specific challenges and peculiarities of data mining with

use of ontologies, in particular: How to deal with incompleteness of knowledge and the so-called Open World Assumption? What is a truly “semantic” similarity measure? The book contains several chapters with examples of applications of semantic data mining. The examples start from a scenario with moderate use of lightweight ontologies for knowledge graph enrichment and end with a full-fledged scenario of an intelligent knowledge discovery assistant using complex domain ontologies for meta-mining, i.e., an ontology-based meta-learning approach to full data mining processes. The book is intended for

researchers in the fields of semantic technologies, knowledge engineering, data science, and data mining, and developers of knowledge-based systems and applications.

Fuzzy Logic and the Semantic Web - Elie Sanchez 2006-02-20

These are exciting times in the fields of Fuzzy Logic and the Semantic Web, and this book will add to the excitement, as it is the first volume to focus on the growing connections between these two fields. This book is expected to be a valuable aid to anyone considering the application of Fuzzy Logic to the Semantic Web, because it

contains a number of detailed accounts of these combined fields, written by leading authors in several countries. The Fuzzy Logic field has been maturing for forty years. These years have witnessed a tremendous growth in the number and variety of applications, with a real-world impact across a wide variety of domains with humanlike behavior and reasoning. And we believe that in the coming years, the Semantic Web will be major field of applications of Fuzzy Logic. This book, the first in the new series Capturing Intelligence, shows the positive role Fuzzy Logic, and more generally Soft Computing,

can play in the development of the Semantic Web, filling a gap and facing a new challenge. It covers concepts, tools, techniques and applications exhibiting the usefulness, and the necessity, for using Fuzzy Logic in the Semantic Web. It finally opens the road to new systems with a high Web IQ. Most of today's Web content is suitable for human consumption. The Semantic Web is presented as an extension of the current web in which information is given well-defined meaning, better enabling computers and people to work in cooperation. For example, within the Semantic Web, computers will understand the

meaning of semantic data on a web page by following links to specified ontologies. But while the Semantic Web vision and research attracts attention, as long as it will be used two-valued-based logical methods no progress will be expected in handling ill-structured, uncertain or imprecise information encountered in real world knowledge. Fuzzy Logic and associated concepts and techniques (more generally, Soft Computing), has certainly a positive role to play in the development of the Semantic Web. Fuzzy Logic will not supposed to be the basis for the Semantic Web but its related concepts and

techniques will certainly reinforce the systems classically developed within W3C. In fact, Fuzzy Logic cannot be ignored in order to bridge the gap between human-understandable soft logic and machine-readable hard logic. None of the usual logical requirements can be guaranteed: there is no centrally defined format for data, no guarantee of truth for assertions made, no guarantee of consistency. To support these arguments, this book shows how components of the Semantic Web (like XML, RDF, Description Logics, Conceptual Graphs, Ontologies) can be covered, with in each case a Fuzzy Logic focus.

First volume to focus on the growing connections between Fuzzy Logic and the Semantic Web
Keynote chapter by Lotfi Zadeh The Semantic Web is presently expected to be a major field of applications of Fuzzy Logic It fills a gap and faces a new challenge in the development of the Semantic Web It opens the road to new systems with a high Web IQ Contributed chapters by Fuzzy Logic leading experts

Data Science and Analytics - Usha Batra

2020-05-27

This two-volume set (CCIS 1229 and CCIS 1230) constitutes the refereed proceedings of the 5th

International Conference on Recent Developments in Science, Engineering and Technology, REDSET 2019, held in Gurugram, India, in November 2019. The 74 revised full papers presented were carefully reviewed and selected from total 353 submissions. The papers are organized in topical sections on data centric programming; next generation computing; social and web analytics; security in data science analytics; big data analytics.

Creativity in Intelligent Technologies and Data Science - Alla G. Kravets 2019-08-29

This two-volume set constitutes the proceedings

of the Third Conference on Creativity in Intellectual Technologies and Data Science, CIT&DS 2019, held in Volgograd, Russia, in September 2019. The 67 full papers, 1 short paper and 3 keynote papers presented were carefully reviewed and selected from 231 submissions. The papers are organized in topical sections in the two volumes. Part I: cyber-physical systems and Big Data-driven world. Part II: artificial intelligence and deep learning technologies for creative tasks; intelligent technologies in social engineering.

Handbook of Large-Scale Distributed Computing

in Smart Healthcare - Samee U. Khan

2017-08-07

This volume offers readers various perspectives and visions for cutting-edge research in ubiquitous healthcare. The topics emphasize large-scale architectures and high performance solutions for smart healthcare, healthcare monitoring using large-scale computing techniques, Internet of Things (IoT) and big data analytics for healthcare, Fog Computing, mobile health, large-scale medical data mining, advanced machine learning methods for mining multidimensional sensor data, smart homes, and

resource allocation methods for the BANs. The book contains high quality chapters contributed by leading international researchers working in domains, such as e-Health, pervasive and context-aware computing, cloud, grid, cluster, and big-data computing. We are optimistic that the topics included in this book will provide a multidisciplinary research platform to the researchers, practitioners, and students from biomedical engineering, health informatics,

computer science, and computer engineering.

Recent Developments in Computing and Its Applications - M. Afshar Alam 2009

This book comprises of 74 contributions from the experts covering the following topics. "

Information Communication Technologies "

Network Technologies " Wireless And Sensor

Networks " Soft Computing " Circuits and

Systems " Software Engineering " Data Mining "

Bioinformatics " Data and Network Security