Integration Of Information Extraction With An Ontology

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Global Product Development - Alain Bernard 2011-05-05
This book of proceedings is the synthesis of all the papers, including keynotes presented during the 20th CIRP Design conference. The book is structured with respect to several topics, in fact the main topics that serve at structuring the program. For each of them, high quality papers are provided. The main topic of the conference was Global Product Development. This includes technical, organizational, informational, theoretical, environmental, performance evaluation, knowledge management, and collaborative aspects. Special sessions were

related to innovation, in particular extraction of knowledge from patents.

The Semantic Web - Karl Aberer 2007-10-22 This book constitutes the refereed proceedings of the joint 6th International Semantic Web Conference, ISWC 2007, and the 2nd Asian Semantic Web Conference, ASWC 2007, held in Busan, Korea, in November 2007. The 50 revised full academic papers and 12 revised application papers presented together with 5 Semantic Web Challenge papers and 12 selected doctoral consortium articles were carefully reviewed and selected from a total of 257 submitted papers to the academic track and 29 to the applications track. The papers address all current issues in the field of the semantic Web, ranging from theoretical and foundational aspects to various applied topics such as management of semantic Web data, ontologies, semantic Web architecture, social semantic Web, as well as applications of the semantic Web. Short descriptions of the top five winning applications submitted to the Semantic Web Challenge competition conclude the volume.

Ontology in Information Science - Ciza Thomas 2018-03-08 The book on Ontology in Information Science explores a broad set of ideas and presents some of the state-of-the-art research in this field concisely in 12 chapters. This book provides researchers and practitioners working in the field of ontology and information science an opportunity to share their theories, methodologies, experiences, and experimental results related to ontology development and application in various areas. It also includes the design aspects of domain ontologies considering the architecture, development strategy, and selection of tools. The intended audience of this book will mainly consist of researchers, research students, and practitioners in the field of ontology and information science.

Knowledge Engineering and Agent Technology - J. Cuena 2004

The use of Knowledge Engineering and Agent Technology (KEAT) for application development is now recognized as an alternative to conventional software techniques in many application domains. From the background of the IFIP IT&KNOWS conference held in late 1998, this volume aims to discuss the role and the perspectives of domain models and corresponding reasoning processes in the different application fields under a common perspective to create conceptual bases and methods to develop and to improve the use of this type of approach in the context of information technology.

Semantic Modeling for University Fee Structure - Sana Rizwan 2015-08-21
World is going wide, accurate, quick and enhance, new topics are emerging, one of them is semantic web and services. Discussion required a way about reasoning of conventional web services with contrasts, having the server end of a client-server system for machine-to-machine interaction via the World Wide Web. According to knowledge based activities semantic services are component of the semantic web because they use mark-up which makes data machine-readable in a detailed and sophisticated way. Our keen focusing areas are semantic metadata and ontologies for Big Data, integration and interplay of deductive (semantic) and statistical methods, scalability of Semantic Web methods and tools, and semantic approaches, web and schema data extraction and integration, ontology based Information extraction, web ontology language.

Information Retrieval in Biomedicine: Natural Language Processing for Knowledge Integration - Prince, Violaine 2009-03-31
"This book provides relevant theoretical frameworks and the latest empirical research findings in biomedicine information retrieval as it pertains to linguistic granularity"--Provided by publisher.

Electronic Business Interoperability:

Concepts, Opportunities and Challenges - Kajan, Ejub 2011-03-31
Interoperability is a topic of considerable interest for business entities, as the exchange and use of data is important to their success and sustainability. Electronic Business Interoperability: Concepts, Opportunities and Challenges analyzes obstacles, provides critical assessment of existing approaches, and reviews recent research efforts to overcome interoperability problems in electronic business. It serves as a source of knowledge for researchers, educators, students, and industry practitioners to share and exchange their most current research findings, ideas, practices, challenges, and opportunities concerning electronic business interoperability.
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.

Automated Invention for Smart Industries - Denis Cavallucci 2018-10-18
This book constitutes the refereed proceedings of the 18th International TRIZ Future Conference on Automated Invention for Smart Industries, held in Strasbourg, France, in October 2018 and sponsored by IFIP WG 5.4. The 27 full papers presented were carefully reviewed and selected from numerous submissions. They are organized in seven thematic sections: teaching of TRIZ; TRIZ and knowledge represenations; biomimicry; strategic company management; association between TRIZ and other methods; TRIZ and the functional approach; and the use of patent or text populations as a data source.

Cases on Semantic Interoperability for Information Systems Integration: Practices and Applications - Kalfoglou, Yannis 2009-10-31
"This book presents the use of semantic interoperability for a variety of applications ranging from manufacturing to tourism, e-commerce, energy Grids' integration, geospatial systems interoperability and automated agents interoperability for web services"--Provided by publisher.

Heritage and Archaeology in the Digital Age - Matthew L. Vincent 2017-11-10
This book examines how computer-based programs can be used to acquire 'big' digital cultural heritage data, curate, and disseminate it over the Internet and in 3D visualization platforms with the ultimate goal of creating long-lasting "digital heritage repositories.' The organization of the book reflects the essence of new technologies applied to cultural heritage

and archaeology. Each of these stages bring their own challenges and considerations that need to be dealt with. The authors in each section present case studies and overviews of how each of these aspects might be dealt with. While technology is rapidly changing, the principles laid out in these chapters should serve as a guide for many years to come. The influence of the digital world on archaeology and cultural heritage will continue to shape these disciplines as advances in these technologies facilitate new lines of research. serif">The book is divided into three sections covering acquisition, curation, and dissemination (the major life cycles of cultural heritage data). Acquisition is one of the fundamental challenges for practitioners in heritage and archaeology, and the chapters in this section provide a template that highlights the principles for present and future work that will provide sustainable models for digital documentation. Following acquisition, the next section highlights how equally important

curation is as the future of digital documentation depends on it. Preservation of digital data requires preservation that can guarantee a future for generations to come. The final section focuses on dissemination as it is what pushes the data beyond the shelves of storage and allows the public to experience the past through these new technologies, but also opens new lines of investigation by giving access to these data to researchers around the globe. Digital technology promises significant changes in how we approach social sciences, cultural heritage, and archaeology. However, researchers must consider not only the acquisition and curation, but also the dissemination of these data to their colleagues and the public. Throughout the book, many of the authors have highlighted the usefulness of Structure from Motion (SfM) work for cultural heritage documentation; others the utility and excitement of crowdsourcing as a 'citizen scientist' tool to engage not only trained students and researchers, but also the public in

the cyber-archaeology endeavor. Both innovative tools facilitate the curation of digital cultural heritage and its dissemination. Together with all the chapters in this volume, the authors will help archaeologists, researchers interested in the digital humanities and scholars who focus on digital cultural heritage to assess where the field is and where it is going.

Information Search, Integration, and Personalization - Giorgos Flouris 2020-03-26 This book constitutes the revised selected papers of the 13th International Workshop on Information Search, Integration and Personalization, ISIP 2019, held in Heraklion, Greece, in May 2019. The volume presents 11 revised full papers, which were carefully reviewed and selected from 16 papers submitted to these post-conference proceedings. The papers are organized in topical sections on linked data; data analytics; data integration; data mining applications.

Journal on Data Semantics X - Stefano Spaccapietra 2008-01-23 The LNCS Journal on Data Semantics is devoted to the presentation of notable work that addresses research and development on issues related to data semantics. Based on the highly visible publication platform Lecture Notes in Computer Science, this journal is widely disseminated and available worldwide. The scope of the journal ranges from theories supporting the formal definition of semantic content to innovative domain-specific applications of semantic knowledge.

Advanced Applications of Natural Language Processing for Performing Information Extraction - Mário Rodrigues 2015-05-06 This book explains how can be created information extraction (IE) applications that are able to tap the vast amount of relevant information available in natural language sources: Internet pages, official documents such as laws and regulations, books and newspapers, and social web. Readers are introduced to the

problem of IE and its current challenges and limitations, supported with examples. The book discusses the need to fill the gap between documents, data, and people, and provides a broad overview of the technology supporting IE. The authors present a generic architecture for developing systems that are able to learn how to extract relevant information from natural language documents, and illustrate how to implement working systems using state-of-the-art and freely available software tools. The book also discusses concrete applications illustrating IE uses. · Provides an overview of state-of-the-art technology in information extraction (IE), discussing achievements and limitations for the software developer and providing references for specialized literature in the area · Presents a comprehensive list of freely available, high quality software for several subtasks of IE and for several natural languages · Describes a generic architecture that can learn how to extract information for a given application

domain

The Evolution of the Internet in the Business Sector - Piet Kommers 2014-11-30 Efficiency and Efficacy are crucial to the success of national and international business operations today. With this in mind, businesses are continuously searching for the information and communication technologies that will improve job productivity and performance and enhance communications, collaboration, cooperation, and connection between employees, employers, and stakeholders. The Evolution of the Internet in the Business Sector: Web 1.0 to Web 3.0 takes a historical look at the policy, implementation, management, and governance of productivity enhancing technologies. This work shares best practices with public and private universities, IS developers and researchers, education managers, and business and web professionals interested in implementing the latest technologies to improve organizational productivity and communication.

Emerging Technologies and Information Systems for the Knowledge Society - Miltiadis D. Lytras 2008-09-20
It is a great pleasure to share with you the Springer LNCS proceedings of the First World Summit on the Knowledge Society - WSKS 2008 that was organized by the Open Research Society, NGO, http://www.open-knowledge-society.org, and took place in the American College of Greece, http://www.acg.gr, during September 24–27, 2008, in Athens, Greece. The World Summit on the Knowledge Society Series is an international attempt to promote a dialogue on the main aspects of a knowledge society toward a better world for all based on knowledge and learning. The WSKS Series brings together academics, people from industry, policy makers, politicians, government officers and active citizens to look at the impact of infor- tion technology, and the knowledge-based era it is creating, on key facets of today's world: the state, business, society and culture. Six general pillars provide the constitutional elements of the WSKS series: • Social and Humanistic Computing for the Knowledge Society––Emerging Te- nologies and Systems for the Society and Humanity • Knowledge, Learning, Education, Learning Technologies and E-learning for the Knowledge Society • Information Technologies––Knowledge Management Systems––E-business and Enterprise Information Systems for the Knowledge Society • Culture and Cultural Heritage––Technology for Culture Management––Management of Tourism and Entertainment––Tourism Networks in the Knowledge Society • Government and Democracy for the Knowledge Society • Research and Sustainable Development in the Knowledge Society The summit provides a distinct, unique forum for cross-disciplinary fertilization of research, favoring the dissemination of research that is relevant to international re-

Knowledge-Driven Multimedia Information Extraction and Ontology Evolution - Georgios Paliouras 2011-05-19
This book presents the state of the art in the areas of ontology evolution and knowledge-driven multimedia information extraction, placing an emphasis on how the two can be combined to bridge the semantic gap. This was also the goal of the EC-sponsored BOEMIE (Bootstrapping Ontology Evolution with Multimedia Information Extraction) project, to which the authors of this book have all contributed. The book addresses researchers and practitioners in the field of computer science and more specifically in knowledge representation and management, ontology evolution, and information extraction from multimedia data. It may also constitute an excellent guide to students attending courses within a computer science study program, addressing information processing and extraction from any type of media (text, images, and video). Among other things, the book gives concrete examples of how several of the methods discussed can be applied to athletics (track and field) events.

OntoCAPE - Wolfgang Marquardt 2009-12-16
Motivation for this Book Ontologies have received increasing attention over the last two decades. Their roots can be traced back to the ancient philosophers, who were interested in a c-ceptualization of the world. In the more recent past, ontologies and ontological engineering have evolved in computer science, building on various roots such as logics, knowledge representation, information modeling and management, and (knowledge-based) information systems. Most recently, largely driven by the next generation internet, the so-called Semantic Web, ontological software engineering has developed into a scientific field of its own, which puts particular emphasis on the theoretical foundations of representation and reasoning, and on the methods and tools

required for building ontology-based software applications in diverse domains. Though this field is largely dominated by computer science, close re- tionships have been established with its diverse areas of application, where - searchers are interested in exploiting the results of ontological software engine- ing, particularly to build large knowledge-intensive applications at high productivity and low maintenance effort. Consequently, a large number of scientific papers and monographs have been p- lished in the very recent past dealing with the theory and practice of ontological software engineering. So far, the majority of those books are dedicated to the th- retical foundations of ontologies, including philosophical treatises and their re- tionships to established methods in information systems and ontological software engineering.

Ontologies - Dieter Fensel 2013-03-09
This second edition systematically introduces the notion of ontologies to the non-expert reader and demonstrates in detail how to apply this conceptual framework for improved intranet retrieval of corporate information and knowledge and for enhanced Internet-based electronic commerce. He also describes ontology languages (XML, RDF, and OWL) and ontology tools, and the application of ontologies. In addition to structural improvements, the second edition covers recent developments relating to the Semantic Web, and emerging web-based standard languages.

KI 2009: Advances in Artificial Intelligence - Bärbel Mertsching 2009-09-29
The 32nd Annual German Conference on Arti?cial Intelligence, KI 2009 (KI being the German acronym for AI), was held at the University of Paderborn, Germany on September 15–18, 2009, continuing a series of successful events. Starting back in 1975 as a national meeting, the conference now gathers - searchers and developers from academic ?elds and industries worldwide to share their research results covering all aspects of arti?cial

intelligence. This year we received submissions from 23 countries and 4 continents. Besides the inter- tional orientation, we made a major e?ort to include as many branches of AI as possible under the roof of the KI conference. A total of 21 area chairs represe- ing di?erent communities within the ?eld of AI selected further members of the program committee and helped the local organizers to acquire papers. The new approach appealed to the AI community: we had 126 submissions, which cons- tuted an increase of more than 50%, and which resulted in 14 parallel sessions on the following topics agents and intelligent virtual environments AI and engineering automated reasoning cognition evolutionary computation Robotics experience and knowledge management history and philosophical foundations knowledge representation and reasoning machine learning and mining natural language processing planning and scheduling spatial and temporal reasoning vision and perception o?ering cutting edge presentations and discussions with leading experts. Thirty-one percent of the contributions came from outside German-speaking countries.

Multimedia Information Extraction and Digital Heritage Preservation -

Ontologies - Rajiv Kishore 2007-04-03 This book describes the state-of-the-art in ontology-driven information systems (ODIS) and gives a complete perspective on the problems, solutions and open research questions in this field. The book covers four broad areas: foundations of ODIS, ontological engineering, ODIS architectures, and ODIS applications. It will trigger innovative thought processes and open up significant new domains in ODIS research.

Advances in Photogrammetry, Remote Sensing and Spatial Information Sciences: 2008 ISPRS Congress Book - Zhilin Li 2008-07-01 Published on the occasion of the XXIst Congress of the International Society for Photogrammetry

and Remote Sensing (ISPRS) in Beiijng, China in 2008, Advances in Photogrammetry, Remote Sensing and Spatial Information Sciences: 2008 ISPRS Congress Book is a compilation of 34 contributions from 62 researchers active within the ISPRS. The book covers

Model Driven Architecture and Ontology Development - Dragan Gaševic 2006-11-22
Defining a formal domain ontology is considered a useful, not to say necessary step in almost every software project. This is because software deals with ideas rather than with self-evident physical artefacts. However, this development step is hardly ever done, as ontologies rely on well-defined and semantically powerful AI concepts such as description logics or rule-based systems, and most software engineers are unfamiliar with these. This book fills this gap by covering the subject of MDA application for ontology development on the Semantic Web. The writing is technical yet clear, and is illustrated with examples. The book is supported by a website.

Integrating Biomedical Information - Assa Reichert 2006
"Organizations in healthcare are moving into the information age since two or three decades. Never was the pace of this movement as fast as today. ""Integrating Biomedical Information: from e-Cell to e-Patient"", the title of this EFMI publication, indicates the broad spectrum of Medical Informatics. Both concepts in the title are new - the result of data collection, data processing and information analysis. It is expected that this data and information to be the knowledge base for a better understanding of mankind and also to assist us in making information (evidence) based decisions in healthcare. We expect that this will give us a better perspective of the human body, its functions and that it will ultimately lead us to better healthcare. Recent developments in clinical terminology construction have brought together specialists from different disciplines,

such as Medicine, Computer Science, Philosophy, and Linguistics. Different genres of clinical terminologies co-exist: the former distinction between formal terminologies, classifications, vocabularies, nomenclatures and thesauri is increasingly being challenged by the notion of ""ontology"". There are controversies between linguistic approaches (aiming at representing term meanings) and ontological ones (which strive for a representation of biomedical reality). There is also an increasing quest for ""good practice"" recommendations for biomedical terminologies.) This book is the third volume of the EFMI STC conferences. This series is a subseries of the MIR-conferences published by IOS Press."

The SAGE Handbook of GIS and Society - Timothy Nyerges 2011-04-13
"The definitive guide to a technology that succeeds or fails depending upon our ability to accommodate societal context and structures. This handbook is lucid, integrative, comprehensive and, above all, prescient in its interpretation of GIS implementation as a societal process." - Paul Longley, University College London "This is truly a handbook - a book you will want to keep on hand for frequent reference and to which GIS professors should direct students entering our field... Selection of a few of the chapters for individual attention is difficult because each one contributes meaningfully to the overall message of this volume. An important collection of articles that will set the tone for the next two decades of discourse and research about GIS and society." - Journal of Geographical Analysis Over the past twenty years research on the evolving relationship between GIS and Society has been expanding into a wide variety of topical areas, becoming in the process an increasingly challenging and multifaceted endeavour. The SAGE Handbook of GIS and Society is a retrospective and prospective overview of GIS and Society research that provides an expansive

and critical assessment of work in that field. Emphasizing the theoretical, methodological and substantive diversity within GIS and Society research, the book highlights the distinctiveness and intellectual coherence of the subject as a field of study, while also examining its resonances with and between key themes, and among disciplines ranging from geography and computer science to sociology, anthropology, and the health and environmental sciences. Comprising 27 chapters, often with an international focus, the book is organized into six sections: Foundations of Geographic Information and Society Geographical Information and Modern Life Alternative Representations of Geographic Information and Society Organizations and Institutions Participation and Community Issues Value, Fairness, and Privacy Aimed at academics, researchers, postgraduates, and GIS practitioners, this Handbook will be the basic reference for any inquiry applying GIS to societal issues.

Ontologies and Databases - Athman Bouguettaya 2013-03-09
Ontologies and Databases brings together in one place important contributions and up-to-date research results in this fast moving area. Ontologies and Databases serves as an excellent reference, providing insight into some of the most challenging research issues in the field.
Advanced Information Systems Engineering Workshops - Sophie Dupuy-Chessa 2020-05-15
This book constitutes the thoroughly refereed proceedings of the international workshops associated with the 32nd International Conference on Advanced Information Systems Engineering, CAiSE 2020, which was planned to take place in Grenoble, France, during June 8-12, 2020. Due to the Coronavirus pandemic the conference was held virtually. The workshops included in this book are: KET4DF, The Second International Workshop on Key Enabling Technologies for Digital Factories

ISESL, The First International Workshop on Information Systems Engineering for Smarter Life The total of 8 full and 3 short papers presented in this volume were carefully reviewed and selected from 20 submissions. The book also contains one invited talk.

Model Driven Engineering and Ontology Development - Dragan Gaševic 2009-06-12 Defining a formal domain ontology is considered a useful, not to say necessary step in almost every software project. This is because software deals with ideas rather than with self-evident physical artefacts. However, this development step is hardly ever done, as ontologies rely on well-defined and semantically powerful AI concepts such as description logics or rule-based systems, and most software engineers are unfamiliar with these. This book fills this gap by covering the subject of MDA application for ontology development on the Semantic Web. The writing is technical yet clear, and is illustrated with examples. The book is supported by a website.

From Integrated Publication and Information Systems to Information and Knowledge Environments - Matthias Hemmje 2005-01-31 This book constitutes a commemorative volume devoted to Erich J. Neuhold on the occasion of his 65th birthday. The 32 invited reviewed papers presented are written by students and colleagues of Erich Neuhold throughout all periods of his scientific career. The papers are organized in the following topical sections: Database management enabling information systems Semantic Web drivers for advanced information management Securing dynamic media content integration From digital libraries to intelligent knowledge environments Visualization – key to external cognition in virtual information environments From human-computer interaction to human-artefact interaction Domains for virtual information and knowledge environments.

Software Engineering and Computer Systems,

Part I - Jasni Mohamad Zain 2011-06-28 This Three-Volume-Set constitutes the refereed proceedings of the Second International Conference on Software Engineering and Computer Systems, ICSECS 2011, held in Kuantan, Malaysia, in June 2011. The 190 revised full papers presented together with invited papers in the three volumes were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on software engineering; network; bioinformatics and e-health; biometrics technologies; Web engineering; neural network; parallel and distributed; e-learning; ontology; image processing; information and data management; engineering; software security; graphics and multimedia; databases; algorithms; signal processing; software design/testing; e-technology; ad hoc networks; social networks; software process modeling; miscellaneous topics in software engineering and computer systems.

Ontologies for Agents: Theory and Experiences - Valentina Tamma 2006-03-30 The volume aims at providing a comprehensive review of the diverse efforts covering the gap existing between the two main perspectives on the topic of ontologies for multi-agent systems, namely: How ontologies should be modelled and represented in order to be effectively used in agent systems, and on the other hand, what kind of capabilities should be exhibited by an agent in order to make use of ontological knowledge and to perform efficient reasoning with it. The volume collects the most significant papers of the AAMAS 2002 and AAMAS 2003 workshop on ontologies for agent systems, and the EKAW 2002 workshop on ontologies for multi-agent systems.

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.

Ontology Learning from Text - Paul Buitelaar 2005
The latest title in Black Library's premium line. Perturabo - master of siegecraft, and executioner of Olympia. Long has he lived in the shadow of his more favoured primarch brothers, frustrated by the mundane and ignominious duties which regularly fall to his Legion. When Fulgrim offers him the chance to lead an expedition in search of an ancient and destructive xenos weapon, the Iron Warriors and the Emperor's Children unite and venture deep into the heart of the great warp-rift known only as 'the Eye'. Pursued by a ragged band of survivors from Isstvan V and the revenants of a dead eldar world, they must work quickly if they are to unleash the devastating power of the Angel Exterminatus

Semi-Automatic Ontology Development: Processes and Resources - Pazienza, Maria Teresa 2012-02-29
"This book includes state-of-the-art research results aimed at the automation of ontology development processes and the reuse of external resources becoming a reality, thus being of interest for a wide and diversified community of users"--

Computer and Computing Technologies in Agriculture XI - Daoliang Li 2019-01-09
The two volumes IFIP AICT 545 and 546 constitute the refereed post-conference proceedings of the 11th IFIP WG 5.14 International Conference on Computer and Computing Technologies in Agriculture, CCTA 2017, held in Jilin, China, in August 2017. The 100 revised papers included in the two volumes were carefully reviewed and selected from 282 submissions. They cover a wide range of

interesting theories and applications of information technology in agriculture. The papers focus on four topics: Internet of Things and big data in agriculture, precision agriculture and agricultural robots, agricultural information services, and animal and plant phenotyping for agriculture.

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 infrastructure. The availability and accessibility of such data, as well as the ability to effectively manage, model, index and query the data is becoming a cornerstone in numerous applications. Moreover, the ability to formalize and represent data is becoming key to integration and interoperability. With the introduction of distributed geospatial data infrastructure and the implementation of web-based services, the impact of such issues is becoming even more evident. Inspired by these challenges, this book on Next Generation Geospatial Information offers a collection of original contributions from leading experts in spatial information modeling, image processing and analysis, database management, ontologies and data mining. It provides a unique insight into the current state-of-the-art and future challenges in geospatial information through four thematic chapters, each of which represents a primary research theme, namely distributed spatial infrastructure, image-based geospatial information management, indexing and querying geospatial databases, and ontology and semantics for geospatial data.

Information Extraction: A Multidisciplinary Approach to an Emerging Information Technology - Maria T. Pazienza 2006-04-11

Information extraction (IE) is a new technology enabling relevant content to be extracted from textual information available electronically. IE essentially builds on natural language processing and computational linguistics, but it is also closely related to the well established area of information retrieval and involves learning. In concert with other promising and emerging information engineering technologies like data mining, intelligent data analysis, and text summarization, IE will play a crucial role for scientists and professionals as well as other end-users who have to deal with vast amounts of information, for example from the Internet. As the first book solely devoted to IE, it is of relevance to anybody interested in new and emerging trends in information processing technology.

Visual Informatics: Sustaining Research and Innovations - Halimah Badioze Zaman
2011-11-04
The two-volume set LNCS 7066 and LNCS 7067 constitutes the proceedings of the Second International Visual Informatics Conference, IVIC 2011, held in Selangor, Malaysia, during November 9-11, 2011. The 71 revised papers presented were carefully reviewed and selected for inclusion in these proceedings. They are organized in topical sections named computer vision and simulation; virtual image processing and engineering; visual computing; and visualisation and social computing. In addition the first volume contains two keynote speeches in full paper length, and one keynote abstract.

Web-Based Multimedia Advancements in Data Communications and Networking Technologies - Sridhar, Varadharajan
2012-08-31
"This book highlights comprehensive research that will enable readers to understand, manage, use, and maintain business data communication networks more effectively"--Provided by publisher.