

BUILDING ONTOLOGIES WITH **BASIC FORMAL ONTOLOGY**

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Building Ontologies With Basic Formal Ontology

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Matwin**



Building Ontologies With Basic Formal Ontology:

Building Ontologies with Basic Formal Ontology Robert Arp, Barry Smith, Andrew D. Spear, 2015-08-28 An introduction to the field of applied ontology with examples derived particularly from biomedicine covering theoretical components design practices and practical applications In the era of big data science is increasingly information driven and the potential for computers to store manage and integrate massive amounts of data has given rise to such new disciplinary fields as biomedical informatics Applied ontology offers a strategy for the organization of scientific information in computer tractable form drawing on concepts not only from computer and information science but also from linguistics logic and philosophy This book provides an introduction to the field of applied ontology that is of particular relevance to biomedicine covering theoretical components of ontologies best practices for ontology design and examples of biomedical ontologies in use After defining an ontology as a representation of the types of entities in a given domain the book distinguishes between different kinds of ontologies and taxonomies and shows how applied ontology draws on more traditional ideas from metaphysics It presents the core features of the Basic Formal Ontology BFO now used by over one hundred ontology projects around the world and offers examples of domain ontologies that utilize BFO The book also describes Web Ontology Language OWL a common framework for Semantic Web technologies Throughout the book provides concrete recommendations for the design and construction of domain ontologies

Ontology-Based Development of Industry 4.0 and 5.0 Solutions for Smart Manufacturing and Production János Abonyi, László Nagy, Tamás Ruppert, 2024-01-01 This book presents a comprehensive framework for developing Industry 4.0 and 5.0 solutions through the use of ontology modeling and graph based optimization techniques With effective information management being critical to successful manufacturing processes this book emphasizes the importance of adequate modeling and systematic analysis of interacting elements in the era of smart manufacturing The book provides an extensive overview of semantic technologies and their potential to integrate with existing industrial standards planning and execution systems to provide efficient data processing and analysis It also investigates the design of Industry 5.0 solutions and the need for problem specific descriptions of production processes operator skills and states and sensor monitoring in intelligent spaces The book proposes that ontology based data can efficiently represent enterprise and manufacturing datasets The book is divided into two parts modeling and optimization The semantic modeling part provides an overview of ontologies and knowledge graphs that can be used to create Industry 4.0 and 5.0 applications with two detailed applications presented on a reproducible industrial case study The optimization part of the book focuses on network science based process optimization and presents various detailed applications such as graph based analytics assembly line balancing and community detection The book is based on six key points the need for horizontal and vertical integration in modern industry the potential benefits of integrating semantic technologies into ERP and MES systems the importance of optimization methods in Industry 4.0 and 5.0 concepts the need to process large amounts of data while

ensuring interoperability and re usability factors the potential for digital twin models to model smart factories including big data access and the need to integrate human factors in CPSs and provide adequate methods to facilitate collaboration and support shop floor workers

The Routledge Handbook of Lexicography Pedro A. Fuertes-Olivera, 2017-10-02 The Routledge Handbook of Lexicography provides a comprehensive overview of the major approaches to lexicography and their applications within the field This Handbook features key case studies and cutting edge contributions from an international range of practitioners teachers and researchers Analysing the theory and practice of compiling dictionaries within the digital era the 47 chapters address the core issues of The foundations of lexicography and its interactions with other disciplines including Corpus Linguistics and Information Science Types of dictionaries for purposes such as translation and teaching Innovative specialised dictionaries such as the Oenolex wine dictionary and the Online Dictionary of New Zealand Sign Language Lexicography and world languages including Arabic Hindi Russian Chinese and Indonesian The future of lexicography including the use of the Internet user participation and dictionary portals The Routledge Handbook of Lexicography is essential reading for researchers and students working in this area

Terminology, Ontology and their Implementations Peter L. Elkin, 2023-07-19 This revised new edition containing numerous new and heavily updated chapters provides readers with the essential information needed to understand the central topics of terminology in healthcare the understanding of which is an asset to be leveraged in care and research Twenty five years ago the notion that terminology should be concept based was all but unknown in healthcare now almost all important terminologies are at least partly concept based With no general model of what a terminology was or should be there were no tools to support terminology development and maintenance Steady progress since then has improved both terminology content and the technology and processes used to sustain that content This new edition uses real world examples from the health sector to delineate the principal issues and solutions for the field of data representation It includes a history of terminologies and in particular their use in healthcare including inter enterprise clinical and research data aggregation Terminology Ontology and their Implementations covers the basis authoring and use of ontologies and reference terminologies including the formalisms needed to use them safely The editor and his team of carefully chosen contributors exhaustively reviews the field of concept based indexing and provides readers with an understanding of natural language processing and its application to health terminologies The book discusses terminology services and the architecture for terminological servers and consequently serves as the basis for study for all students of health informatics

Computational Processing of the Portuguese Language Paulo Quaresma, Renata Vieira, Sandra Aluísio, Helena Moniz, Fernando Batista, Teresa Gonçalves, 2020-02-24 This book constitutes the proceedings of the 14th International Conference on Computational Processing of the Portuguese Language PROPOR 2020 held in Evora Portugal in March 2020 The 36 full papers presented together with 5 short papers were carefully reviewed and selected from 70 submissions They are grouped in topical sections on speech processing

resources and evaluation natural language processing applications semantics natural language processing tasks and multilinguality *Information Technology for Management: Emerging Research and Applications* Ewa Ziemba, 2019-02-27 This book constitutes extended selected papers from the 16th Conference on Advanced Information Technologies for Management AITM 2018 and the 13th Conference on Information Systems Management ISM 2018 held as part of the Federated Conference on Computer Science and Information Systems FedCSIS which took place in Poznan Poland in September 2018 The total of 9 full and 3 short papers presented in this volume were carefully reviewed and selected from a total of 43 submissions The papers selected to be included in this book contribute to the understanding of relevant trends of current research on information technology for management in business and public organizations They were organized in topical sections named information technology and systems for knowledge management and information technology and systems for business transformation **Digital Libraries: Data, Information, and Knowledge for Digital Lives** Songphan Choemprayong, Fabio Crestani, Sally Jo Cunningham, 2017-11-03 This book constitutes the refereed proceedings of the 19th International Conference on Asia Pacific Digital Libraries ICADL 2017 held in Bangkok Thailand in November 2017 The 21 full papers and 6 short papers presented in this book were carefully reviewed and selected from 51 submissions The paper topics of ICADL 2017 covered a wide spectrum from various areas including information visualization data mining extraction cultural heritage preservation personalized service and user modeling novel library content and use environments electronic publishing preservation systems and algorithms social networking and information systems Internet of things cloud computing and applications mobile services interoperability issues open source tools and systems security and privacy multi language support metadata and cataloguing search retrieval and browsing interfaces to all forms of digital content e Science e Research data and knowledge management and cooperative service and community service **Internet of Production** Christian Brecher, Günther Schuh, Wil van der Aalst, Matthias Jarke, Frank T. Piller, Melanie Padberg, 2023-12-29 This seminal compendium available through open access illuminates the forefront of digital collaboration in production It introduces the visionary concept of the Internet of Production IoP an ambitious initiative by Germany's esteemed Cluster of Excellence at RWTH Aachen University This handbook pioneers the integration of data models and knowledge across development production and user cycles offering interdisciplinary insights into production technology's horizons with the overall objective to create a worldwide lab The work is organized into seven key parts each contributing to a comprehensive understanding of the IoP Part I lays the foundation with interdisciplinary visions and concepts Part II delves into IoP's infrastructure encompassing digital shadows and actionable artificial intelligence Part III examines materials within the digitalized production landscape Part IV confronts the challenges and potentials of production processes under novel digitalization methods Part V focuses on production management with data driven decision support while Part VI explores agile development processes Finally Part VII delves into the interplay between internal and external perspectives in the IoP

human centered work design and platform based ecosystems Supported by the German Research Foundation DFG this compendium redefines manufacturing through the transformative IoP lens Embrace this scholarly endeavor to embrace technological advancement This is an open access book *Discovery Science* Annalisa Appice, Grigorios Tsoumakias, Yannis Manolopoulos, Stan Matwin, 2020-10-14 This book constitutes the proceedings of the 23rd International Conference on Discovery Science DS 2020 which took place during October 19-21, 2020 The conference was planned to take place in Thessaloniki Greece but had to change to an online format due to the COVID 19 pandemic The 26 full and 19 short papers presented in this volume were carefully reviewed and selected from 76 submissions The contributions were organized in topical sections named classification clustering data and knowledge representation data streams distributed processing ensembles explainable and interpretable machine learning graph and network mining multi target models neural networks and deep learning and spatial temporal and spatiotemporal data

The Proceedings of the 2024 Conference on Systems Engineering Research Alejandro Salado, Ricardo Valerdi, Rick Steiner, Larry Head, 2024-07-25 The 22nd International Conference on Systems Engineering Research CSER 2024 pushes the boundaries of systems engineering research and responds to new challenges for systems engineering CSER was founded in 2003 by Stevens Institute of Technology and the University of Southern California In 2024 the conference was hosted by the University of Arizona home to the first ever established Department of Systems Engineering The following foundational research topics are included Scientific Foundations of Systems Engineering Digital Engineering Digital Twins Digital Transformation Advances in Model Based Systems Engineering MBSE Value based and Agile Systems Engineering Artificial Intelligence for Systems and Software Engineering AI4SE Systems and Software Engineering for Artificial Intelligence SE4AI Cybersecurity and System Security Engineering Uncertainty and Complexity Management Trust and Autonomous Systems Human Systems Integration Systems of Systems Social Systems Engineering Systems Thinking Advances in requirements engineering systems architecture systems integration and verification and validation The 21st Annual Conference on Systems Engineering Research CSER 2024 was poised to push the boundaries of systems engineering embracing a wide array of themes from its scientific underpinnings to the forefront of digital engineering transformation and the seamless integration of artificial intelligence within systems and software engineering Delving into cutting edge topics such as Model Based Systems Engineering MBSE cybersecurity and the management of uncertainty and complexity CSER 2024 tackled the varied challenges and seize the opportunities emerging in the field The conference's commitment to blending theoretical insights with practical innovations makes it a pivotal event for the systems engineering community

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