

Demystifying Owl For The Enterprise

Enterprises have made amazing advances by taking advantage of data about their business to provide predictions and understanding of their customers, markets, and products. But as the world of business becomes more interconnected and global, enterprise data is no long a monolith; it is just a part of a vast web of data. Managing data on a world-wide scale is a key capability for any business today. The Semantic Web treats data as a distributed resource on the scale of the World Wide Web, and

Read Online Demystifying Owl For The Enterprise

incorporates features to address the challenges of massive data distribution as part of its basic design. The aim of the first two editions was to motivate the Semantic Web technology stack from end-to-end; to describe not only what the Semantic Web standards are and how they work, but also what their goals are and why they were designed as they are. It tells a coherent story from beginning to end of how the standards work to manage a world-wide distributed web of knowledge in a meaningful way. The third edition builds on this foundation to bring Semantic Web practice to enterprise. Fabien Gandon joins Dean Allemang and

Read Online Demystifying Owl For The Enterprise

Jim Hendler, bringing with him years of experience in global linked data, to open up the story to a modern view of global linked data. While the overall story is the same, the examples have been brought up to date and applied in a modern setting, where enterprise and global data come together as a living, linked network of data. Also included with the third edition, all of the data sets and queries are available online for study and experimentation at data.world/swwo.

The book illustrates how this applies to the future of application system development, especially how it informs and affects Web services and business rule-based approaches,

Read Online Demystifying Owl For The Enterprise

and how semantics will play out with XML and the semantic Web. The book also contains a quick reference guide to related terms and technologies.

This short work is the first draft of a book manuscript by Aaron Swartz written for the series "Synthesis Lectures on the Semantic Web" at the invitation of its editor, James Hendler. Unfortunately, the book wasn't completed before Aaron's death in January 2013. As a tribute, the editor and publisher are publishing the work digitally without cost. From the author's introduction:

" . . . we will begin by trying to understand the architecture of the Web -- what it got right and,

Read Online Demystifying Owl For The Enterprise

occasionally, what it got wrong, but most importantly why it is the way it is. We will learn how it allows both users and search engines to co-exist peacefully while supporting everything from photo-sharing to financial transactions. We will continue by considering what it means to build a program on top of the Web -- how to write software that both fairly serves its immediate users as well as the developers who want to build on top of it. Too often, an API is bolted on top of an existing application, as an afterthought or a completely separate piece. But, as we'll see, when a web application is designed properly, APIs naturally grow out of

Read Online Demystifying Owl For The Enterprise

it and require little effort to maintain. Then we'll look into what it means for your application to be not just another tool for people and software to use, but part of the ecology -- a section of the programmable web. This means exposing your data to be queried and copied and integrated, even without explicit permission, into the larger software ecosystem, while protecting users' freedom. Finally, we'll close with a discussion of that much-maligned phrase, 'the Semantic Web,' and try to understand what it would really mean."

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

Read Online Demystifying Owl For The Enterprise

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.

Learning SPARQL

How the Application-Centric Mindset is Hobbling our Enterprises
Effective Modeling for Linked Data, RDFS, and OWL

An Introduction to Ontology

Read Online Demystifying Owl For The Enterprise

An Introduction to the Planning
Domain Definition Language
An Unfinished Work

Very little is known about the issue of wildlife conservation within China. Even China specialists get a meager ration of stories about pandas giving birth in zoos, or poachers in some remote setting being apprehended. But what does the future hold for China's wildlife? In this thoughtful work the leading U.S. expert on wildlife projects in Western China presents a multi-faceted assessment of the topic. Richard B. Harris draws on twenty years of experience working in China, and incorporates perspectives ranging from biology through

Read Online Demystifying Owl For The Enterprise

Chinese history and tradition, to interpret wildlife conservation issues in a cultural context. In non-technical language, Harris shows that, particularly in its vast western sections where most species of wildlife still have a chance to survive, China has adopted a strongly preservationist, "hands-off" approach to wildlife without confronting the larger and more difficult problem of habitat loss. This policy treats wildlife conservation as a strictly technical problem - and thus prioritizes captive breeding to meet the demand for animal products - while ignoring the manifold cultural, social, and economic dimensions that truly

Read Online Demystifying Owl For The Enterprise

dictate how wild animals will fare in their interaction with the physical and human environments. The author concludes that any successes this policy achieves will be temporary.

Semantic Web for the Working Ontologist: Effective Modeling in RDFS and OWL, Second Edition, discusses the capabilities of Semantic Web modeling languages, such as RDFS (Resource Description Framework Schema) and OWL (Web Ontology Language). Organized into 16 chapters, the book provides examples to illustrate the use of Semantic Web technologies in solving common modeling

Read Online Demystifying Owl For The Enterprise

problems. It uses the life and works of William Shakespeare to demonstrate some of the most basic capabilities of the Semantic Web. The book first provides an overview of the Semantic Web and aspects of the Web. It then discusses semantic modeling and how it can support the development from chaotic information gathering to one characterized by information sharing, cooperation, and collaboration. It also explains the use of RDF to implement the Semantic Web by allowing information to be distributed over the Web, along with the use of SPARQL to access RDF data. Moreover, the reader is introduced

Read Online Demystifying Owl For The Enterprise

to components that make up a Semantic Web deployment and how they fit together, the concept of inferencing in the Semantic Web, and how RDFS differs from other schema languages. Finally, the book considers the use of SKOS (Simple Knowledge Organization System) to manage vocabularies by taking advantage of the inferencing structure of RDFS-Plus. This book is intended for the working ontologist who is trying to create a domain model on the Semantic Web. Updated with the latest developments and advances in Semantic Web technologies for organizing, querying, and processing information, including

Read Online Demystifying Owl For The Enterprise

SPARQL, RDF and RDFS, OWL 2.0, and SKOS Detailed information on the ontologies used in today's key web applications, including ecommerce, social networking, data mining, using government data, and more Even more illustrative examples and case studies that demonstrate what semantic technologies are and how they work together to solve real-world problems

This book constitutes the refereed proceedings of the IFIP WG 8.6 International Working Conference "Creating Value for All Through IT" on Transfer and Diffusion of IT, TDIT 2014, held in Aalborg, Denmark, in June 2014. The 18

Read Online Demystifying Owl For The Enterprise

revised full papers presented together with 5 research-in-progress papers, 2 experience reports and a panel were carefully reviewed and selected from 37 submissions. The full papers are organized in the following topical sections: creating value; creating value through software development; and creating value through applications.

This book describes a set of methods, architectures, and tools to extend the data pipeline at the disposal of developers when they need to publish and consume data from Knowledge Graphs (graph-structured knowledge bases that describe the entities and relations within a domain in a semantically

Read Online Demystifying Owl For The Enterprise

meaningful way) using SPARQL, Web APIs, and JSON. To do so, it focuses on the paradigmatic cases of two middleware software packages, grlc and SPARQL Transformer, which automatically build and run SPARQL-based REST APIs and allow the specification of JSON schema results, respectively. The authors highlight the underlying principles behind these technologies—query management, declarative languages, new levels of indirection, abstraction layers, and separation of concerns—, explain their practical usage, and describe their penetration in research projects and industry. The book, therefore, serves a double purpose: to provide

Read Online Demystifying Owl For The Enterprise

a sound and technical description of tools and methods at the disposal of publishers and developers to quickly deploy and consume Web Data APIs on top of Knowledge Graphs; and to propose an extensible and heterogeneous Knowledge Graph access infrastructure that accommodates a growing ecosystem of querying paradigms.

Nurse's Clinical Pocket Guide

Demystifying OWL for the
Enterprise

Data Science and Analytics

Mystifying the Monarch

Creating Value for All Through IT

Semantics in Business Systems

An introduction to the field of applied ontology with examples derived

Read Online Demystifying Owl For The Enterprise

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

Read Online Demystifying Owl For The Enterprise

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.

Read Online Demystifying Owl For The Enterprise

Most books on Supply Chain Management simply focus on how to move materials and key resources throughout an industrial enterprise. Reinventing Lean shows how SCM can be made “Lean, leading to much more reliable, cost-effective and competitive Supply Chain Management (SCM). In this book, the reader will find a collection of management tools that will help to implement Lean principles, and to understand the components of an integrated Supply Chain Management system. Moreover, the book will show that to make Lean SCM effective, both the functional management tools as well as an enterprise-wide cultural readiness are needed in order to lay the groundwork for a World Class Lean Supply Chain. Reinventing Lean will

Read Online Demystifying Owl For The Enterprise

carefully lead engineers and manufacturing managers on how to adopt a cutting-edge Lean Supply Chain strategy. The book will lay out various proven approaches to incorporating Lean and SCM practices, by focusing on the ways in which SCM relates to materials, money, and information movement within the manufacturing environment. And because Reinventing Lean recognizes that a successful Lean SCM system cannot be achieved unless an organization supports team integration and the willingness to adapt to change, it provides not only the technical tools but also methods for changing company cultural factors that can make it all come together for a successful operation. Industrial engineers and plant managers, with

Read Online Demystifying Owl For The Enterprise

strong backgrounds in SCM, will learn how lean management principles can be utilized to make their organizations leaner, more efficient, and more competitive. Readers will find out how to lay out various approaches to incorporating Lean and SCM practices. Readers can learn how to customize a cutting-edge Lean Supply Chain strategy which will give a distinct advantage over the competition.

Use ontologies in Python, with the Owlready2 module developed for ontology-oriented programming. You will start with an introduction and refresher on Python and OWL ontologies. Then, you will dive straight into how to access, create, and modify ontologies in Python. Next, you will move on to an overview of semantic constructs and

Read Online Demystifying Owl For The Enterprise

class properties followed by how to perform automatic reasoning. You will also learn about annotations, multilingual texts, and how to add Python methods to OWL classes and ontologies. Using medical terminologies as well as direct access to RDF triples is also covered. Python is one of the most used programming languages, especially in the biomedical field, and formal ontologies are also widely used. However, there are limited resources for the use of ontologies in Python. Owlready2, downloaded more than 60,000 times, is a response to this problem, and this book is the first one on the topic of using ontologies with Python. What You Will Learn Use Owlready2 to access and modify OWL ontologies in Python Publish ontologies on dynamic websites

Read Online Demystifying Owl For The Enterprise

Perform automatic reasoning in Python Use well-known ontologies, including DBpedia and Gene Ontology, and terminological resources, such as UMLS (Unified Medical Language System) Integrate Python methods in OWL ontologies Who Is This Book For Beginner to experienced readers from biomedical sciences and artificial intelligence fields would find the book useful. Know what's causing application development waste so you can turn the tide. This is the book your Systems Integrator and your Application Software vendor don't want you to read. Enterprise IT (Information Technology) is a \$3.8 trillion per year industry worldwide. Most of it is waste. We've grown used to projects costing tens of millions or even billions of dollars,

Read Online Demystifying Owl For The Enterprise

and routinely running over budget and schedule many times over. These overages in both time and money are almost all wasted resources.

However, the waste is hard to see, after being so marbled through all the products, processes, and guiding principles. That is what this book is about. We must see, understand, and agree about the problem before we can take coordinated action to address it. The trajectory of this book is as follows: In Chapter 1, we explore how bad the current state is. The three industries that address software waste are discussed, including the legacy software industry, neo-legacy software industry, and legacy modernization industry. Examples of application waste are illustrated from both public and private sectors. In

Read Online Demystifying Owl For The Enterprise

Chapter 2, we explore the economics of the software industry. Although the economic tradeoffs are changing at the speed of Moore's Law, our approaches are not keeping pace. Learn how information systems really behave in terms of actual application development. In Chapter 3 we use "root cause analysis" to reveal the real contributors to this situation, which are dependency, redundancy, complexity, and application centricity. Chapter 4 recounts the many failed attempts we've made in the past to deal with information system complexity, including relational databases, ERP systems, enterprise data modeling, service oriented architectures, and APIs, Agile, data warehouse and business intelligence, outsourcing and offshoring, cloud, Software as a

Read Online Demystifying Owl For The Enterprise

Service (SaaS), data lakes, machine learning, and artificial intelligence. Chapter 5 dismantles seven fallacies that contribute to our remaining stuck. For example, the first fallacy is “We need detailed requirements or we won’t get what we want.” The quagmire is not affecting all sectors of the economy equally. Chapter 6 looks at how this is playing out in the government and private sectors, large and small companies, and various parts of the IT industry itself. Chapter 7 outlines some action you can take now to begin to extricate yourself, including a detailed assessment and defining metrics for measuring and preventing software development waste.

5th International Conference on
Recent Developments in Science,
Engineering and Technology,

Read Online Demystifying Owl For The Enterprise

REDSET 2019, Gurugram, India,
November 15-16, 2019, Revised
Selected Papers, Part II

Build Flexible Applications with
Graph Data

Reinventing Lean

Knowledge Graphs

Software Wasteland

Studies on Discourse, Power, and
History

Here ' s the essential clinical
information you need to care for
obstetric, gynecological, newborn,
and pediatric patients in any
setting. The 3rd Edition of this
popular pocket guide has been
thoroughly revised and updated to
reflect nursing practice today.

The power of monarchs has
traditionally been as much
symbolic as actual, rooted in

Read Online Demystifying Owl For The Enterprise

popular imagery of sovereignty, divinity, and authority. In *Mystifying the Monarch*, a distinguished group of contributors explores the changing nature of that imagery—and its political and social effects—in Europe from the Middle Ages to the present day. They demonstrate that, rather than a linear progression where perceptions of rulers moved inexorably from the sacred to the banal, in reality the history of monarchy has been one of constant tension between mystification and demystification. After a slow incubation period of nearly 15 years, a large and growing number of organizations now have one or more projects

Read Online Demystifying Owl For The Enterprise

using the Semantic Web stack of technologies. The Web Ontology Language (OWL) is an essential ingredient in this stack, and the need for ontologists is increasing faster than the number and variety of available resources for learning OWL. This is especially true for the primary target audience for this book: modelers who want to build OWL ontologies for practical use in enterprise and government settings. The purpose of this book is to speed up the process of learning and mastering OWL. To that end, the focus is on the 30% of OWL that gets used 90% of the time. Others who may benefit from this book include technically oriented managers, semantic

Read Online Demystifying Owl For The Enterprise

technology developers, undergraduate and post-graduate students, and finally, instructors looking for new ways to explain OWL. The book unfolds in a spiral manner, starting with the core ideas. Each subsequent cycle reinforces and expands on what has been learned in prior cycles and introduces new related ideas. Part 1 is a cook's tour of ontology and OWL, giving an informal overview of what things need to be said to build an ontology, followed by a detailed look at how to say them in OWL. This is illustrated using a healthcare example. Part 1 concludes with an explanation of some foundational ideas about meaning and semantics to prepare

Read Online Demystifying Owl For The Enterprise

the reader for subsequent chapters. Part 2 goes into depth on properties and classes, which are the core of OWL. There are detailed descriptions of the main constructs that you are likely to need in every day modeling, including what inferences are sanctioned. Each is illustrated with real world examples. Part 3 explains and illustrates how to put OWL into practice, using examples in healthcare, collateral, and financial transactions. A small ontology is described for each, along with some key inferences. Key limitations of OWL are identified, along with possible workarounds. The final chapter gives a variety of practical tips and

Read Online Demystifying Owl For The Enterprise

guidelines to send the reader on their way.

Discover BIM: A better way to build better buildings Building Information Modeling (BIM) offers a novel approach to design, construction, and facility management in which a digital representation of the building product and process is used to facilitate the exchange and interoperability of information in digital format. BIM is beginning to change the way buildings look, the way they function, and the ways in which they are designed and built. The BIM Handbook, Third Edition provides an in-depth understanding of BIM technologies, the business and organizational

Read Online Demystifying Owl For The Enterprise

issues associated with its implementation, and the profound advantages that effective use of BIM can provide to all members of a project team. Updates to this edition include: Information on the ways in which professionals should use BIM to gain maximum value New topics such as collaborative working, national and major construction clients, BIM standards and guides A discussion on how various professional roles have expanded through the widespread use and the new avenues of BIM practices and services A wealth of new case studies that clearly illustrate exactly how BIM is applied in a wide variety of conditions Painting a colorful and

Read Online Demystifying Owl For The Enterprise

thorough picture of the state of the art in building information modeling, the BIM Handbook, Third Edition guides readers to successful implementations, helping them to avoid needless frustration and costs and take full advantage of this paradigm-shifting approach to construct better buildings that consume fewer materials and require less time, labor, and capital resources.

Building Ontologies with Basic Formal Ontology
An Introduction to Ontology Engineering
The Data-Centric Revolution
CAiSE 2011 International Workshops, London, UK, June 20-24, 2011, Proceedings

Read Online Demystifying Owl For The Enterprise

Demystifying the Brain

OB/GYN Peds Notes

Planning is the branch of Artificial Intelligence (AI) that seeks to automate reasoning about plans, most importantly the reasoning that goes into formulating a plan to achieve a given goal in a given situation. AI planning is model-based: a planning system takes as input a description (or model) of the initial situation, the actions available to change it, and the goal condition to output a plan composed of those actions that will accomplish the goal when executed from the initial situation. The Planning Domain

Read Online Demystifying Owl For The Enterprise

Definition Language (PDDL) is a formal knowledge representation language designed to express planning models. Developed by the planning research community as a means of facilitating systems comparison, it has become a de-facto standard input language of many planning systems, although it is not the only modelling language for planning. Several variants of PDDL have emerged that capture planning problems of different natures and complexities, with a focus on deterministic problems. The purpose of this book is two-fold.

Read Online Demystifying Owl For The Enterprise

First, we present a unified and current account of PDDL, covering the subsets of PDDL that express discrete, numeric, temporal, and hybrid planning. Second, we want to introduce readers to the art of modelling planning problems in this language, through educational examples that demonstrate how PDDL is used to model realistic planning problems. The book is intended for advanced students and researchers in AI who want to dive into the mechanics of AI planning, as well as those who want to be able to use AI planning systems without an in-depth explanation of the

Read Online Demystifying Owl For The Enterprise

algorithms and implementation techniques they use.

What value does semantic data modeling offer? As an information architect or data science professional, let's say you have an abundance of the right data and the technology to extract business gold—but you still fail. The reason? Bad data semantics. In this practical and comprehensive field guide, author Panos Alexopoulos takes you on an eye-opening journey through semantic data modeling as applied in the real world. You'll learn how to master this craft to increase the usability and value of your data

Read Online Demystifying Owl For The Enterprise

and applications. You'll also explore the pitfalls to avoid and dilemmas to overcome for building high-quality and valuable semantic representations of data. Understand the fundamental concepts, phenomena, and processes related to semantic data modeling Examine the quirks and challenges of semantic data modeling and learn how to effectively leverage the available frameworks and tools Avoid mistakes and bad practices that can undermine your efforts to create good data models Learn about model development

Read Online Demystifying Owl For The Enterprise

dilemmas, including representation, expressiveness and content, development, and governance Organize and execute semantic data initiatives in your organization, tackling technical, strategic, and organizational challenges Cultural Heritage (CH) data is syntactically and semantically heterogeneous, multilingual, semantically rich, and highly interlinked. It is produced in a distributed, open fashion by museums, libraries, archives, and media organizations, as well as individual persons. Managing publication of such richness and variety of content

Read Online Demystifying Owl For The Enterprise

on the Web, and at the same time supporting distributed, interoperable content creation processes, poses challenges where traditional publication approaches need to be rethought. Application of the principles and technologies of Linked Data and the Semantic Web is a new, promising approach to address these problems. This development is leading to the creation of large national and international CH portals, such as Europeana, to large open data repositories, such as the Linked Open Data Cloud, and massive publications of linked library data in the

Read Online Demystifying Owl For The Enterprise

U.S., Europe, and Asia. Cultural Heritage has become one of the most successful application domains of Linked Data and Semantic Web technologies. This book gives an overview on why, when, and how Linked (Open) Data and Semantic Web technologies can be employed in practice in publishing CH collections and other content on the Web. The text first motivates and presents a general semantic portal model and publishing framework as a solution approach to distributed semantic content creation, based on an ontology infrastructure. On the Semantic

Read Online Demystifying Owl For The Enterprise

Web, such an infrastructure includes shared metadata models, ontologies, and logical reasoning, and is supported by shared ontology and other Web services alleviating the use of the new technology and linked data in legacy cataloging systems. The goal of all this is to provide layman users and researchers with new, more intelligent and usable Web applications that can be utilized by other Web applications, too, via well-defined Application Programming Interfaces (API). At the same time, it is possible to provide publishing organizations with more cost-

Read Online Demystifying Owl For The Enterprise

efficient solutions for content creation and publication. This book is targeted to computer scientists, museum curators, librarians, archivists, and other CH professionals interested in Linked Data and CH applications on the Semantic Web. The text is focused on practice and applications, making it suitable to students, researchers, and practitioners developing Web services and applications of CH, as well as to CH managers willing to understand the technical issues and challenges involved in linked data publication. Table of Contents: Cultural Heritage on

Read Online Demystifying Owl For The Enterprise

*the Semantic Web / Portal
Model for Collaborative CH
Publishing / Requirements for
Publishing Linked Data /
Metadata Schemas / Domain
Vocabularies and Ontologies /
Logic Rules for Cultural
Heritage / Cultural Content
Creation / Semantic Services
for Human and Machine Users /
Conclusions*

*For keyboarding skills students
need tomorrow, this is the book
they need today. 40 lessons
introduce new key learning and
technique mastery, and 40
additional lessons emphasize
word processing and business-
document formatting including*

Read Online Demystifying Owl For The Enterprise

MLA-style reports, personal business letters, flyers, and newsletters. Timed writings and a variety of interesting activities help with basic keyboarding skills as well as strengthen oral and written communication, word-processing and Internet skills. Includes the latest in teacher support material with a top-spiral Teacher's Edition that provides tips, notes, and classroom suggestions, and an Instructor's Resource CD that includes articles about teaching keyboarding, methodology, student data files, lesson plans, and document solutions.

Read Online Demystifying Owl For The Enterprise

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*The Savvy Manager's Guide
The Speculative Turn
A Guide to Building Information
Modeling for Owners,
Designers, Engineers,
Contractors, and Facility
Managers
Semantic Web for the Working
Ontologist
Exploratory Causal Analysis
with Time Series Data
Programming the Semantic
Web
Shift from application-*

Read Online Demystifying Owl For The Enterprise

*centric to data-centric
to enable your
organization to develop
more efficient and
successful Enterprise
Information Systems.
This book is the first
part of a trilogy to
follow Software
Wasteland. In Software
Wasteland, we detailed
the current poor state
of application software
development. We offered
some tactical advice for
reducing some of the
worse of the excess.
This is the first book
in the what to do*

Read Online Demystifying Owl For The Enterprise

instead trilogy. Even if the thought of data modeling makes you cringe, Dave McCombs latest book makes the case that it is a necessary exercise for the data-driven organization. The Data-Centric Revolution shows how to be data-driven in an extensible, flexible way that is baked-into organizational culture, rather than taking a typical project-by-project approach. The book is a fun, insightful and meaty

Read Online Demystifying Owl For The Enterprise

*read, well-illustrated,
and with endless
wonderful examples. Doug
Laney, Principal, Data &
Analytics Strategy,
Caserta, and author of
the best-seller,
Infonomics: How to
Monetize, Manage, and
Measure Information for
Competitive Advantage
Dave McComb has laid out
a roadmap to travel the
exciting path towards
data centrality. Daves
passion for semantic
modeling is contagious
and his expert advice
will give you the*

Read Online Demystifying Owl For The Enterprise

motivation to rethink application development and the direction needed to deliver value in your organization with linked data. Nic Seyot, Executive Director, Information Management at a major investment bank. In his new book, Dave teaches us why most of the stack we've spent decades trying to maintain is just a big, unmanageable pile of duplicative, inflexible code. He shows us how to collapse the stack and blend the logic and data

Read Online Demystifying Owl For The Enterprise

each business needs to thrive, in one contextually rich, machine readable, dynamic, smart data layer. The bloated app and process layers of the stack go away, leaving a thin execution layer calling on the power of the smart data underneath. After Software Wasteland explained the problem, The Data-Centric Revolution articulates the solution. Alan Morrison, Sr. Research Fellow, New Services and

Read Online Demystifying Owl For The Enterprise

Emerging Tech, PwC. From the age of punched cards to today's internet-driven systems, one thing has stayed fairly constant: software vendors and their implementers have been driving the Enterprise IT industry. This is changing. It will be hard to see initially, but it's already happening in some more prescient organizations. As organizations realize they can take control of their own destiny by adopting data-centric

Read Online Demystifying Owl For The Enterprise

principles, they will see their dependency on application software wither. The cost of running internal information systems will drop at least ten-fold, and the cost of integrating them will drop even more rapidly. This will decimate the \$400 billion/ year application software industry and the \$400 billion/year systems integration industry. The benefit will accrue to the buyers, and will accrue earliest to the

Read Online Demystifying Owl For The Enterprise

first movers. The trajectory of this book is as follows: Chapters 1 through 3 lay the data-centric foundation. Chapter 1 introduces the data-centric movement and the prerequisites that must be in place for success (including roles and responsibilities). Chapter 2 defines data-centric and explores a data-centric vision and approaches. Chapter 3 covers the management requirements in achieving a data-centric

Read Online Demystifying Owl For The Enterprise

paradigm shift and reveals the new modeling discipline and delivery architecture. Chapters 4 through 6 explain the data-centric approach and its rewards. Chapter 4 summarizes why the data-centric approach will save incredible amounts of time and money. Chapter 5 explores various data centric approaches, and the underlying themes of flexibility and simplicity. Chapter 6 broadens the discussion of paradigm shifts and

Read Online Demystifying Owl For The Enterprise

also discusses who will help you lead this data-centric approach.

Chapters 7 through 10 discuss case studies and ways of organizing data.

Chapters 7 and 10 discuss several case studies that have taken the data-centric

approach. Chapter 8 explains linked data and semantic technologies, and Chapter 9 ontologies and knowledge graphs.

Chapters 11 through 13 dig deeper into the pitfalls of the application-centric

Read Online Demystifying Owl For The Enterprise

mindset and the benefits of the data-centric mindset. Chapter 11 gets to the root of the application-centric mindset: application software. Chapter 12 reveals the benefits of code reduction and Chapter 13 the benefits of the model-driven approach. Chapters 14 through 18 explain how to implement the data-centric paradigm. Chapter 14 explains how new technologies fit in with the data-centric approach. Chapters 15

Read Online Demystifying Owl For The Enterprise

and 16 cover how to get started. Chapter 17 explains the important role of governance in the data-centric approach. Chapter 18 summarizes the key takeaways.

Ten Strategies of a World-Class Cyber Security Operations Center conveys MITRE's accumulated expertise on enterprise-grade computer network defense. It covers ten key qualities of leading Cyber Security Operations Centers

Read Online Demystifying Owl For The Enterprise

(CSOCs), ranging from their structure and organization, to processes that best enable smooth operations, to approaches that extract maximum value from key CSOC technology investments. This book offers perspective and context for key decision points in structuring a CSOC, such as what capabilities to offer, how to architect large-scale data collection and analysis, and how to prepare the CSOC team

Read Online Demystifying Owl For The Enterprise

for agile, threat-based response. If you manage, work in, or are standing up a CSOC, this book is for you. It is also available on MITRE's website, www.mitre.org. The next major advance in the Web-Web 3.0-will be built on semantic Web technologies, which will allow data to be shared and reused across application, enterprise, and community boundaries. Written by a team of highly experienced Web developers, this book

Read Online Demystifying Owl For The Enterprise

explains examines how this powerful new technology can unify and fully leverage the ever-growing data, information, and services that are available on the Internet. Helpful examples demonstrate how to use the semantic Web to solve practical, real-world problems while you take a look at the set of design principles, collaborative working groups, and technologies that form the semantic Web. The companion Web

Read Online Demystifying Owl For The Enterprise

site features full code, as well as a reference section, a FAQ section, a discussion forum, and a semantic blog.

This book constitutes the thoroughly refereed proceedings of ten international workshops held in London, UK, in conjunction with the 23rd International Conference on Advanced Information Systems Engineering, CAiSE 2011, in June 2011. The 59 revised papers were carefully selected from 139 submissions. The ten

Read Online Demystifying Owl For The Enterprise

*workshops included
Business/IT Alignment
and Interoperability
(BUSITAL),
Conceptualization of
Modelling Methods (CMM),
Domain Specific
Engineering (DsE@CAiSE),
Governance, Risk and
Compliance (GRCIS),
Integration of IS
Engineering Tools
(INiSET), System and
Software Architectures
(IWSSA), Ontology-Driven
Information Systems
Engineering (ODISE),
Ontology, Models,
Conceptualization and*

Read Online Demystifying Owl For The Enterprise

*Epistemology in Social,
Artificial and Natural
Systems (ONTOSE),
Semantic Search (SSW),
and Information Systems
Security Engineering
(WISSE).*

*Web Data APIs for
Knowledge Graphs
Methodology, Technology,
Corporate Use
Applied Computer
Keyboarding
Semantic Web Programming
Querying and Updating
with SPARQL 1.1
Fact and Fiction*

**This book is a guide to
designing and building**

Read Online Demystifying Owl For The Enterprise

knowledge graphs from enterprise relational databases in practice. It presents a principled framework centered on mapping patterns to connect relational databases with knowledge graphs, the roles within an organization responsible for the knowledge graph, and the process that combines data and people. The content of this book is applicable to knowledge graphs being built either with property graph or RDF graph technologies. Knowledge graphs are fulfilling the vision of

Read Online Demystifying Owl For The Enterprise

creating intelligent systems that integrate knowledge and data at large scale. Tech giants have adopted knowledge graphs for the foundation of next-generation enterprise data and metadata management, search, recommendation, analytics, intelligent agents, and more. We are now observing an increasing number of enterprises that seek to adopt knowledge graphs to develop a competitive edge. In order for enterprises to design and build knowledge graphs, they need to

Read Online Demystifying Owl For The Enterprise

understand the critical data stored in relational databases. How can enterprises successfully adopt knowledge graphs to integrate data and knowledge, without boiling the ocean? This book provides the answers. Continental philosophy has entered a new period of ferment. The long deconstructionist era was followed with a period dominated by Deleuze, which has in turn evolved into a new situation still difficult to define. However, one common thread running through the new

Read Online Demystifying Owl For The Enterprise

brand of continental positions is a renewed attention to materialist and realist options in philosophy. Among the leaders of the established generation, this new focus takes numerous forms. It might be hard to find many shared positions in the writings of Badiou, DeLanda, Laruelle, Latour, Stengers, and i ek, but what is missing from their positions is an obsession with the critique of written texts. All of them elaborate a positive ontology, despite the incompatibility of their results. Meanwhile, the

Read Online Demystifying Owl For The Enterprise

new generation of continental thinkers is pushing these trends still further, as seen in currents ranging from transcendental materialism to the London-based speculative realism movement to new revivals of Derrida. As indicated by the title The Speculative Turn, the new currents of continental philosophy depart from the text-centered hermeneutic models of the past and engage in daring speculations about the nature of reality itself. This anthology assembles

Read Online Demystifying Owl For The Enterprise

authors, of several generations and numerous nationalities, who will be at the centre of debate in continental philosophy for decades to come."

The purpose of this book is to speed up the processing of learning and mastering the Web Ontology Language OWL. To that end, the focus is on the 30% of OWL that gets used 90% of the time. After a slow incubation period of nearly 15 years, a large and growing number of organizations now have one or more projects using the Semantic Web stack of

Read Online Demystifying Owl For The Enterprise

technologies. The Web Ontology Language (OWL) is an essential ingredient in this stack, and the need for ontologists is increasing faster than the number and variety of available resources for learning OWL. This is especially true for the primary target audience for this book: modelers who want to build OWL ontologies for practical use in enterprise and government settings. Others who may benefit from this book include technically oriented managers, semantic technology developers,

Read Online Demystifying Owl For The Enterprise

undergraduate and post-graduate students, and finally, instructors looking for new ways to explain OWL. The book unfolds in a spiral manner, starting with the core ideas. Each subsequent cycle reinforces and expands on what has been learned in prior cycles and introduces new related ideas. Part 1 is a cook's tour of ontology and OWL, giving an informal overview of what things need to be said to build an ontology, followed by a detailed look at how to say them in OWL. This is illustrated using a healthcare example. Part 1

Read Online Demystifying Owl For The Enterprise

concludes with an explanation of some foundational ideas about meaning and semantics to prepare the reader for subsequent chapters. Part 2 goes into depth on properties and classes, which are the core of OWL. There are detailed descriptions of the main constructs that you are likely to need in every day modeling, including what inferences are sanctioned. Each is illustrated with real-world examples. Part 3 explains and illustrates how to put OWL into practice, using examples in

Read Online Demystifying Owl For The Enterprise

healthcare, collateral, and financial transactions. A small ontology is described for each, along with some key inferences. Key limitations of OWL are identified, along with possible workarounds. The final chapter gives a variety of practical tips and guidelines to send the reader on their way. The class is theory of price regulation assumed that the regulator knows the firm's costs, the key piece of information that enables regulators to pressure firms to choose appropriate behaviors. The "regulatory

Read Online Demystifying Owl For The Enterprise

problem" was reduced to a mere pricing problem: the regulator's goal was to align price with marginal cost, subject to the constraint that revenues must cover costs. Elegant and important insights ensued. The most important was that regulation was inevitably a struggle to achieve second-best outcomes. (Ramsey pricing was a splendid example.) Reality proved harsh to regulatory theory. The fmn's costs are by no means known to the regulator. At best, the regulator may know how

Read Online Demystifying Owl For The Enterprise

much is currently spent to provide services, but hardly what costs would be if the firm vigorously pursued efficiency. Even if the current cost curve were known to the regulator, technologies change so swiftly that today's costs are a very poor indicator of tomorrow's, and those are the costs that will determine the firm's future decisions. With the burgeoning attention to information considerations and game theory in economics, the regulator's problem of eliciting host information about cost has

Read Online Demystifying Owl For The Enterprise

received considerable attention. In most cases, however, it has been in context that are both static and stylized; such analyses rarely capture many of the essential elements of real world regulatory issues.

This volume represents a fresh approach. It reflects Glenn Blackmon's twin strengths, a keen analytic mind and important experience in the regulatory arena.

Incentive Regulation and the Regulation of Incentives

IFIP WG 8.6 International Conference on Transfer and

Read Online Demystifying Owl For The Enterprise

***Diffusion of IT, TDIT 2014,
Aalborg, Denmark, June
2-4, 2014, Proceedings
Programming OWL 2.0
Ontologies with Python and
Owlready2***

***Ontologies with Python
Restoring Sanity to
Enterprise Information
Systems***

Semantic Applications

**This book describes
methodologies for
developing semantic
applications. Semantic
applications are software
applications which explicitly
or implicitly use the
semantics, i.e. the meaning**

Read Online Demystifying Owl For The Enterprise

of a domain terminology, in order to improve usability, correctness, and completeness. An example is semantic search, where synonyms and related terms are used for enriching the results of a simple text-based search. Ontologies, thesauri or controlled vocabularies are the centerpiece of semantic applications. The book includes technological and architectural best practices for corporate use. The authors are experts from industry and academia with experience in developing

Read Online Demystifying Owl For The Enterprise

semantic applications. How can we develop a cultural theory starting with the basic insight that human beings are "storytelling animals"? Within literary studies, narratology is a highly developed field. However, literary historians have not paid much attention to the large and small stories abounding in everyday discourse, guiding all kinds of social activity, and providing common ground for whole societies—but also fueling controversies and hostilities. Moreover,

Read Online Demystifying Owl For The Enterprise

"narrative" is not only a scholarly category but has come into use in many fields of social activity as a tool for cultural self-fashioning. This book is based on the assumption that to a large extent, social dynamics is modeled in an aesthetic manner via narratives. It explores the narrative organization of cultural spaces and time-frames, the mythological shaping of communities and adversaries, and the co-production of narratives and institutions aimed at stabilizing social life. In this

Read Online Demystifying Owl For The Enterprise

framework, the epistemological problem looms large of how an instrument as unreliable as narrative can participate in the creation of a social consensus regarding truth. This problem endows the general topics explored in this book with a particularly contemporary dimension. In this engaging and wide-ranging new book, Nikk Effingham provides an introduction to contemporary ontology - the study of what exists - and its importance for philosophy today. He covers the key

Read Online Demystifying Owl For The Enterprise

topics in the field, from the ontology of holes, numbers and possible worlds, to space, time and the ontology of material objects - for instance, whether there are composite objects such as tables, chairs or even you and me. While starting from the basics, every chapter is up-to-date with the most recent developments in the field, introducing both longstanding theories and cutting-edge advances. As well as discussing the latest issues in ontology, Effingham also helpfully deals in-depth with different

Read Online Demystifying Owl For The Enterprise

methodological principles (including theory choice, Quinean ontological commitment and Meinongianism) and introduces them alongside an example ontological theory that puts them into practice. This accessible and comprehensive introduction will be essential reading for upper-level undergraduate and post-graduate students, as well as any reader interested in the present state of the subject. An Introduction to Ontology Engineering introduces the student to a comprehensive

Read Online Demystifying Owl For The Enterprise

overview of ontology engineering, and offers hands-on experience that illustrate the theory. The topics covered include: logic foundations for ontologies with languages and automated reasoning, developing good ontologies with methods and methodologies, the top-down approach with foundational ontologies, and the bottomup approach to extract content from legacy material, and a selection of advanced topics that includes Ontology-Based Data Access, the interaction

Read Online Demystifying Owl For The Enterprise

between ontologies and natural languages, and advanced modelling with fuzzy and temporal ontologies. Each chapter contains review questions and exercises, and descriptions of two group assignments are provided as well. The textbook is aimed at advanced undergraduate/postgraduate level in computer science and could fit a semester course in ontology engineering or a 2-week intensive course. Domain experts and philosophers may find a subset of the

Read Online Demystifying Owl For The Enterprise

chapters of interest, or work through the chapters in a different order. Maria Keet is an Associate Professor with the Department of Computer Science, University of Cape Town, South Africa. She received her PhD in Computer Science in 2008 at the KRDB Research Centre, Free University of Bozen-Bolzano, Italy. Her research focus is on knowledge engineering with ontologies and Ontology, and their interaction with natural language and conceptual data modelling, which has

Read Online Demystifying Owl For The Enterprise

resulted in over 100 peer-reviewed publications. She has developed and taught multiple courses on ontology engineering and related courses at various universities since 2009.

Ten Strategies of a World-Class Cybersecurity Operations Center

Wildlife Conservation in China: Preserving the Habitat of China's Wild West

Publishing and Using Cultural Heritage Linked Data on the Semantic Web

Ontology Engineering

BIM Handbook

Elements of a General

Read Online Demystifying Owl For The Enterprise

Theory of Narrative

This open access book offers a summary of the development of Digital Earth over the past twenty years. By reviewing the initial vision of Digital Earth, the evolution of that vision, the relevant key technologies, and the role of Digital Earth in helping people respond to global challenges, this publication reveals how and why Digital Earth is becoming vital for acquiring, processing, analysing and mining the rapidly growing volume of global data sets about the Earth. The main aspects of Digital Earth covered here

Read Online Demystifying Owl For The Enterprise

include: Digital Earth platforms, remote sensing and navigation satellites, processing and visualizing geospatial information, geospatial information infrastructures, big data and cloud computing, transformation and zooming, artificial intelligence, Internet of Things, and social media. Moreover, the book covers in detail the multi-layered/multi-faceted roles of Digital Earth in response to sustainable development goals, climate changes, and mitigating disasters, the applications of Digital Earth (such as digital

Read Online Demystifying Owl For The Enterprise

city and digital heritage), the citizen science in support of Digital Earth, the economic value of Digital Earth, and so on. This book also reviews the regional and national development of Digital Earth around the world, and discusses the role and effect of education and ethics. Lastly, it concludes with a summary of the challenges and forecasts the future trends of Digital Earth. By sharing case studies and a broad range of general and scientific insights into the science and technology of Digital Earth, this book offers an essential

Read Online Demystifying Owl For The Enterprise

introduction for an ever-growing international audience.

Ontologies have become increasingly important as the use of knowledge graphs, machine learning, natural language processing (NLP), and the amount of data generated on a daily basis has exploded. As of 2014, 90% of the data in the digital universe was generated in the two years prior, and the volume of data was projected to grow from 3.2 zettabytes to 40 zettabytes in the next six years. The very real issues that government, research,

Read Online Demystifying Owl For The Enterprise

and commercial organizations are facing in order to sift through this amount of information to support decision-making alone mandate increasing automation. Yet, the data profiling, NLP, and learning algorithms that are ground-zero for data integration, manipulation, and search provide less than satisfactory results unless they utilize terms with unambiguous semantics, such as those found in ontologies and well-formed rule sets. Ontologies can provide a rich "schema" for the knowledge graphs

Read Online Demystifying Owl For The Enterprise

underlying these technologies as well as the terminological and semantic basis for dramatic improvements in results. Many ontology projects fail, however, due at least in part to a lack of discipline in the development process. This book, motivated by the Ontology 101 tutorial given for many years at what was originally the Semantic Technology Conference (SemTech) and then later from a semester-long university class, is designed to provide the foundations for ontology engineering. The book can serve as a course textbook or

Read Online Demystifying Owl For The Enterprise

a primer for all those interested in ontologies. This book provides a comprehensive and accessible introduction to knowledge graphs, which have recently garnered notable attention from both industry and academia. Knowledge graphs are founded on the principle of applying a graph-based abstraction to data, and are now broadly deployed in scenarios that require integrating and extracting value from multiple, diverse sources of data at large scale. The book defines knowledge graphs and provides a high-

Read Online Demystifying Owl For The Enterprise

level overview of how they are used. It presents and contrasts popular graph models that are commonly used to represent data as graphs, and the languages by which they can be queried before describing how the resulting data graph can be enhanced with notions of schema, identity, and context. The book discusses how ontologies and rules can be used to encode knowledge as well as how inductive techniques—based on statistics, graph analytics, machine learning, etc.—can be used to encode and extract

Read Online Demystifying Owl For The Enterprise

knowledge. It covers techniques for the creation, enrichment, assessment, and refinement of knowledge graphs and surveys recent open and enterprise knowledge graphs and the industries or applications within which they have been most widely adopted. The book closes by discussing the current limitations and future directions along which knowledge graphs are likely to evolve. This book is aimed at students, researchers, and practitioners who wish to learn more about knowledge graphs and how they facilitate

Read Online Demystifying Owl For The Enterprise

extracting value from diverse data at large scale. To make the book accessible for newcomers, running examples and graphical notation are used throughout. Formal definitions and extensive references are also provided for those who opt to delve more deeply into specific topics.

Gain hands-on experience with SPARQL, the RDF query language that's bringing new possibilities to semantic web, linked data, and big data projects. This updated and expanded edition shows you how to use SPARQL 1.1 with a

Read Online Demystifying Owl For The Enterprise

variety of tools to retrieve, manipulate, and federate data from the public web as well as from private sources. Author Bob DuCharme has you writing simple queries right away before providing background on how SPARQL fits into RDF technologies. Using short examples that you can run yourself with open source software, you'll learn how to update, add to, and delete data in RDF datasets. Get the big picture on RDF, linked data, and the semantic web Use SPARQL to find bad data and create new data from existing data Use datatype

Read Online Demystifying Owl For The Enterprise

metadata and functions in your queries Learn techniques and tools to help your queries run more efficiently Use RDF Schemas and OWL ontologies to extend the power of your queries Discover the roles that SPARQL can play in your applications

Easing Access to Semantic Data for Application Developers

Aaron Swartz's The Programmable Web Designing and Building Enterprise Knowledge Graphs Semantic Modeling for Data Continental Materialism and Realism

Read Online Demystifying Owl For The Enterprise

Advanced Information
Systems Engineering
Workshops

Many scientific disciplines rely on observational data of systems for which it is difficult (or impossible) to implement controlled experiments.

Data analysis techniques are required for identifying causal information and relationships directly from such observational data. This need has led to the development of many different time series causality approaches and tools including transfer entropy, convergent cross-mapping (CCM), and Granger causality statistics. A practicing analyst can explore the literature to find many proposals for identifying drivers and causal

Read Online Demystifying Owl For The Enterprise

connections in time series data sets. Exploratory causal analysis (ECA) provides a framework for exploring potential causal structures in time series data sets and is characterized by a myopic goal to determine which data series from a given set of series might be seen as the primary driver. In this work, ECA is used on several synthetic and empirical data sets, and it is found that all of the tested time series causality tools agree with each other (and intuitive notions of causality) for many simple systems but can provide conflicting causal inferences for more complicated systems. It is proposed that such disagreements between different time series causality tools during ECA might provide deeper insight

Read Online Demystifying Owl For The Enterprise

into the data than could be found otherwise.

With this book, the promise of the Semantic Web -- in which machines can find, share, and combine data on the Web -- is not just a technical possibility, but a practical reality. Programming the Semantic Web demonstrates several ways to implement semantic web applications, using current and emerging standards and technologies. You'll learn how to incorporate existing data sources into semantically aware applications and publish rich semantic data. Each chapter walks you through a single piece of semantic technology and explains how you can use it to solve real problems. Whether you're

Read Online Demystifying Owl For The Enterprise

**writing a simple mashup or
maintaining a high-performance
enterprise solution, Programming the
Semantic Web provides a standard,
flexible approach for integrating and
future-proofing systems and data.
This book will help you: Learn how
the Semantic Web allows new and
unexpected uses of data to emerge
Understand how semantic
technologies promote data
portability with a simple, abstract
model for knowledge representation
Become familiar with semantic
standards, such as the Resource
Description Framework (RDF) and
the Web Ontology Language (OWL)
Make use of semantic programming
techniques to both enrich and
simplify current web applications**

Read Online Demystifying Owl For The Enterprise

This book presents an emerging new vision of the brain, which is essentially expressed in computational terms, for non-experts. As such, it presents the fundamental concepts of neuroscience in simple language, without overwhelming non-biologists with excessive biological jargon. In addition, the book presents a novel computational perspective on the brain for biologists, without resorting to complex mathematical equations. It addresses a comprehensive range of topics, starting with the history of neuroscience, the function of the individual neuron, the various kinds of neural network models that can explain diverse neural phenomena,

Read Online Demystifying Owl For The Enterprise

sensory-motor function, language, emotions, and concluding with the latest theories on consciousness. The book offers readers a panoramic introduction to the “new brain” and a valuable resource for interdisciplinary researchers looking to gatecrash the world of neuroscience.

Introducing Lean Management into the Supply Chain

Effective Modeling in RDFS and OWL

A Computational Approach

Manual of Digital Earth