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*A Semantic Approach to
Scholarly Networking and Discovery*

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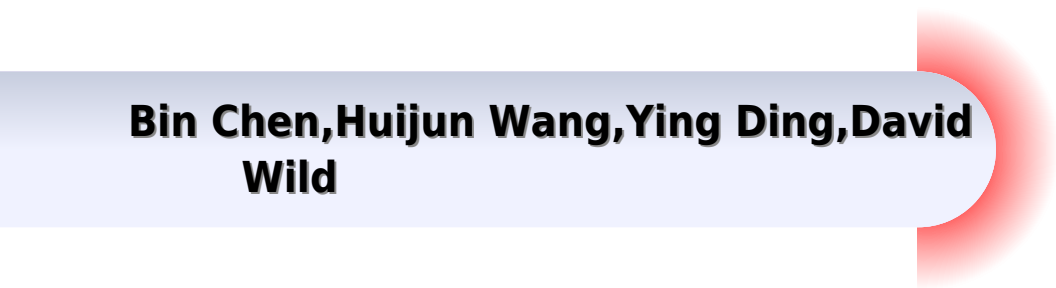
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**SYNTHESIS LECTURES ON
THE SEMANTIC WEB: THEORY AND TECHNOLOGY**

James Hendler and Ying Ding, *Series Editors*

Vivo A Semantic Approach To Scholarly Networking And Discovery Mike Conlon

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Vivo A Semantic Approach To Scholarly Networking And Discovery Mike Conlon:

VIVO Katy Borner, Ying Ding, Mike Conlon, Jon Corson-Rikert, 2022-05-31 The world of scholarship is changing rapidly Increasing demands on scholars the growing size and complexity of questions and problems to be addressed and advances in sophistication of data collection analysis and presentation require new approaches to scholarship A ubiquitous open information infrastructure for scholarship consisting of linked open data open source software tools and a community committed to sustainability are emerging to meet the needs of scholars today This book provides an introduction to VIVO <http://vivoweb.org> a tool for representing information about research and researchers their scholarly works research interests and organizational relationships VIVO provides an expressive ontology tools for managing the ontology and a platform for using the ontology to create and manage linked open data for scholarship and discovery Begun as a project at Cornell and further developed by an NIH funded consortium VIVO is now being established as an open source project with community participation from around the world By the end of 2012 over 20 countries and 50 organizations will provide information in VIVO format on more than one million researchers and research staff including publications research resources events funding courses taught and other scholarly activity The rapid growth of VIVO and of VIVO compatible data sources speaks to the fundamental need to transform scholarship for the 21st century Table of Contents Scholarly Networking Needs and Desires The VIVO Ontology Implementing VIVO and Filling It with Life Case Study University of Colorado at Boulder Case Study Weill Cornell Medical College Extending VIVO Analyzing and Visualizing VIVO Data The Future of VIVO Growing the Community *Publishing and Using Cultural Heritage Linked Data on the Semantic Web* Eero Hyvonen, 2022-05-31 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 on the Web and at the same time supporting distributed interoperable content creation processes poses challenges where traditional publication approaches need to be re thought 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 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 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 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 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 Smart Citizens, Smarter State Beth Simone Noveck, 2015-11-02 The purpose of Smarter State is to provide both the theory and a practical blueprint for going beyond mere transparency and passive citizenship to a world in which citizenship is active and institutions are open by default Such openness and collaboration are essential if democratic societies are to meet the challenges of today and tomorrow Preface Semantic Breakthrough in Drug Discovery Bin Chen, Huijun Wang, Ying Ding, David Wild, 2022-06-01 The current drug development paradigm sometimes expressed as One disease one target one drug is under question as relatively few drugs have reached the market in the last two decades Meanwhile the research focus of drug discovery is being placed on the study of drug action on biological systems as a whole rather than on individual components of such systems The vast amount of biological information about genes and proteins and their modulation by small molecules is pushing drug discovery to its next critical steps involving the integration of chemical knowledge with these biological databases Systematic integration of these heterogeneous datasets and the provision of algorithms to mine the integrated datasets would enable investigation of the complex mechanisms of drug action however traditional approaches face challenges in the representation and integration of multi scale datasets and in the discovery of underlying knowledge in the integrated datasets The Semantic Web envisioned to enable machines to understand and respond to complex human requests and to retrieve relevant yet distributed data has the potential to trigger system level chemical biological innovations Chem2Bio2RDF is presented as an example of utilizing Semantic Web technologies to enable intelligent analyses for drug discovery Table of Contents Introduction Data Representation and Integration Using RDF Data Representation and Integration Using OWL Finding Complex Biological Relationships in PubMed Articles using Bio LDA Integrated Semantic Approach for Systems Chemical Biology Knowledge Discovery Semantic Link Association Prediction Conclusions References Authors Biographies **Semantic Mining of Social Networks** Jie Tang, Juanzi Li, 2022-06-01 Online social networks have already become a bridge connecting our physical daily life with the web based information space This connection produces a

huge volume of data not only about the information itself but also about user behavior. The ubiquity of the social Web and the wealth of social data offer us unprecedented opportunities for studying the interaction patterns among users so as to understand the dynamic mechanisms underlying different networks something that was previously difficult to explore due to the lack of available data. In this book we present the architecture of the research for social network mining from a microscopic point of view. We focus on investigating several key issues in social networks. Specifically we begin with analytics of social interactions between users. The first kinds of questions we try to answer are: What are the fundamental factors that form the different categories of social ties? How have reciprocal relationships been developed from parasocial relationships? How do connected users further form groups? Another theme addressed in this book is the study of social influence. Social influence occurs when one's opinions, emotions, or behaviors are affected by others intentionally or unintentionally. Considerable research has been conducted to verify the existence of social influence in various networks. However, few literature studies address how to quantify the strength of influence between users from different aspects. In Chapter 4 and in 138 we have studied how to model and predict user behaviors. One fundamental problem is distinguishing the effects of different social factors such as social influence, homophily, and individual's characteristics. We introduce a probabilistic model to address this problem. Finally we use an academic social network, ArnetMiner, as an example to demonstrate how we apply the introduced technologies for mining real social networks. In this system we try to mine knowledge from both the informative publication network and the social collaboration network and to understand the interaction mechanisms between the two networks. The system has been in operation since 2006 and has already attracted millions of users from more than 220 countries/regions.

Social Semantic Web Mining Tope Omitola, Sebastián A. Ríos, John G. Breslin, 2022-06-01

The past ten years have seen a rapid growth in the numbers of people signing up to use Web-based social networks: hundreds of millions of new members are now joining the main services each year, with a large amount of content being shared on these networks: tens of billions of content items are shared each month. With this growth in usage and data being generated, there are many opportunities to discover the knowledge that is often inherent but somewhat hidden in these networks. Web mining techniques are being used to derive this hidden knowledge. In addition, the Semantic Web, including the Linked Data initiative to connect previously disconnected datasets, is making it possible to connect data from across various social spaces through common representations and agreed-upon terms for people, content items, etc. In this book we detail some current research being carried out to semantically represent the implicit and explicit structures on the Social Web, along with the techniques being used to elicit relevant knowledge from these structures, and we present the mechanisms that can be used to intelligently mesh these semantic representations with intelligent knowledge discovery processes. We begin this book with an overview of the origins of the Web and then show how web intelligence can be derived from a combination of web and Social Web mining. We give an overview of the Social and Semantic Webs, followed by a description of the combined Social Semantic

Web along with some of the possibilities it affords and the various semantic representation formats for the data created in social networks and on social media sites Provenance and provenance mining is an important aspect here especially when data is combined from multiple services We will expand on the subject of provenance and especially its importance in relation to social data We will describe extensions to social semantic vocabularies specifically designed for community mining purposes SIOCM In the last three chapters we describe how the combination of web intelligence and social semantic data can be used to derive knowledge from the Social Web starting at the community level macro and then moving through group mining meso to user profile mining micro

Knowledge Graphs Aidan Hogan, Eva Blomqvist, Michael Cochez, Claudia d'Amato, Gerard de Melo, Claudio Gutierrez, Sabrina Kirrane, Jose Emilio Labra Gayo, Roberto Navigli, Sebastian Neumaier, Axel Polleres, Sabbir Rashid, Anisa Rula, Antoine Zimmermann, Lukas Schmelzeisen, Axel-Cyrille Ngonga Ngomo, Juan Sequeda, Steffen Staab, 2022-06-01 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 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 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 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

Incentive-Centric Semantic Web Application Engineering Elena Simperl, Roberta Cuel, Martin Stein, 2022-06-01 While many Web 2.0 inspired approaches to semantic content authoring do acknowledge motivation and incentives as the main drivers of user involvement the amount of useful human contributions actually available will always remain a scarce resource Complementarily there are aspects of semantic content authoring in which automatic techniques have proven to perform reliably and the added value of human and collective intelligence is often a question of cost and timing The challenge that this book attempts to tackle is how these two approaches machine and human driven computation could be combined in order to improve the cost performance ratio of

creating managing and meaningfully using semantic content To do so we need to first understand how theories and practices from social sciences and economics about user behavior and incentives could be applied to semantic content authoring We will introduce a methodology to help software designers to embed incentives minded functionalities into semantic applications as well as best practices and guidelines We will present several examples of such applications addressing tasks such as ontology management media annotation and information extraction which have been built with these considerations in mind These examples illustrate key design issues of incentivized Semantic Web applications that might have a significant effect on the success and sustainable development of the applications the suitability of the task and knowledge domain to the intended audience and the mechanisms set up to ensure high quality contributions and extensive user involvement

Table of Contents Semantic Data Management A Human driven Process Fundamentals of Motivation and Incentives Case Study Motivating Employees to Annotate Content Case Study Building a Community of Practice Around Web Service Management and Annotation Case Study Games with a Purpose for Semantic Content Creation Conclusions

Natural Language Processing for the Semantic Web Diana Maynard, Kalina Bontcheva, Isabelle Augenstein, 2022-05-31 This book introduces core natural language processing NLP technologies to non experts in an easily accessible way as a series of building blocks that lead the user to understand key technologies why they are required and how to integrate them into Semantic Web applications Natural language processing and Semantic Web technologies have different but complementary roles in data management Combining these two technologies enables structured and unstructured data to merge seamlessly Semantic Web technologies aim to convert unstructured data to meaningful representations which benefit enormously from the use of NLP technologies thereby enabling applications such as connecting text to Linked Open Data connecting texts to each other semantic searching information visualization and modeling of user behavior in online networks The first half of this book describes the basic NLP processing tools tokenization part of speech tagging and morphological analysis in addition to the main tools required for an information extraction system named entity recognition and relation extraction which build on these components The second half of the book explains how Semantic Web and NLP technologies can enhance each other for example via semantic annotation ontology linking and population These chapters also discuss sentiment analysis a key component in making sense of textual data and the difficulties of performing NLP on social media as well as some proposed solutions The book finishes by investigating some applications of these tools focusing on semantic search and visualization modeling user behavior and an outlook on the future

The Epistemology of Intelligent Semantic Web Systems Mathieu d'Aquin, Enrico Motta, 2022-05-31 The Semantic Web is a young discipline even if only in comparison to other areas of computer science Nonetheless it already exhibits an interesting history and evolution This book is a reflection on this evolution aiming to take a snapshot of where we are at this specific point in time and also showing what might be the focus of future research This book provides both a conceptual and practical view of this evolution especially targeted at readers who

are starting research in this area and as support material for their supervisors From a conceptual point of view it highlights and discusses key questions that have animated the research community what does it mean to be a Semantic Web system and how is it different from other types of systems such as knowledge systems or web based information systems From a more practical point of view the core of the book introduces a simple conceptual framework which characterizes Intelligent Semantic Web Systems We describe this framework the components it includes and give pointers to some of the approaches and technologies that might be used to implement them We also look in detail at concrete systems falling under the category of Intelligent Semantic Web Systems according to the proposed framework allowing us to compare them analyze their strengths and weaknesses and identify the key fundamental challenges still open for researchers to tackle **Entity**

Resolution in the Web of Data Vassilis Christophides,Vasilis Efthymiou,Kostas Stefanidis,2022-05-31 In recent years several knowledge bases have been built to enable large scale knowledge sharing but also an entity centric Web search mixing both structured data and text querying These knowledge bases offer machine readable descriptions of real world entities e g persons places published on the Web as Linked Data However due to the different information extraction tools and curation policies employed by knowledge bases multiple complementary and sometimes conflicting descriptions of the same real world entities may be provided Entity resolution aims to identify different descriptions that refer to the same entity appearing either within or across knowledge bases The objective of this book is to present the new entity resolution challenges stemming from the openness of the Web of data in describing entities by an unbounded number of knowledge bases the semantic and structural diversity of the descriptions provided across domains even for the same real world entities as well as the autonomy of knowledge bases in terms of adopted processes for creating and curating entity descriptions The scale diversity and graph structuring of entity descriptions in the Web of data essentially challenge how two descriptions can be effectively compared for similarity but also how resolution algorithms can efficiently avoid examining pairwise all descriptions The book covers a wide spectrum of entity resolution issues at the Web scale including basic concepts and data structures main resolution tasks and workflows as well as state of the art algorithmic techniques and experimental trade offs

Web Data APIs for Knowledge Graphs Albert Meroño-Peñuela,Pasquale Lisena,Carlos Martínez-Ortiz,2022-05-31 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 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 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 Designing and Building Enterprise Knowledge Graphs Juan Sequeda, Ora Lassila, 2022-05-31 This book is a guide to designing and building 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 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 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 *Library Linked Data in the Cloud* Carol Jean Godby, Shenghui Wang, Jeffrey K. Mixer, 2022-06-01 This book describes OCLC's contributions to the transformation of the Internet from a web of documents to a Web of Data The new Web is a growing cloud of interconnected resources that identify the things people want to know about when they approach the Internet with an information need The linked data architecture has achieved critical mass just as it has become clear that library standards for resource description are nearing obsolescence Working for the world's largest library cooperative OCLC researchers have been active participants in the development of next generation standards for library resource description By engaging with an international community of library and Web standards experts they have published some of the most widely used RDF datasets representing library collections and librarianship This book focuses on the conceptual and technical challenges involved in publishing linked data derived from traditional library metadata This transformation is a high priority because most searches for information start not in the library nor even in a Web accessible library catalog but elsewhere on the Internet Modeling data in a form that the broader Web understands will project the value of libraries into the Digital Information Age The exposition is aimed at librarians archivists computer scientists and other professionals interested in modeling bibliographic descriptions as linked data It aims to achieve a balanced treatment of theory technical detail and practical application *Demystifying OWL for the Enterprise* Michael Uschold, 2022-05-31 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 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 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 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 guidelines to send the reader on their way.

Resource-Oriented Architecture Patterns for Webs of Data Brian Sletten, 2022-05-31. The surge of interest in the REpresentational State Transfer (REST) architectural style, the Semantic Web, and Linked Data has resulted in the development of innovative, flexible, and powerful systems that embrace one or more of these compatible technologies. However, most developers, architects, Information Technology managers, and platform owners have only been exposed to the basics of resource-oriented architectures. This book is an attempt to catalog and elucidate several reusable solutions that have been seen in the wild in the now increasingly familiar patterns book style. These are not turn-key implementations but rather useful strategies for solving certain problems in the development of modern resource-oriented systems, both on the public Web and within an organization's firewalls.

Semantics in Mobile Sensing Zhixian Yan, Dipanjan Chakraborty, 2022-06-01. The dramatic progress of smartphone technologies has ushered in a new era of mobile sensing, where traditional wearable on-body sensors are being rapidly superseded by various embedded sensors in our smartphones. For example, a typical smartphone today has at the very least a GPS, WiFi, Bluetooth, triaxial accelerometer, and gyroscope. Alongside new accessories are emerging, such as proximity, magnetometer, barometer, temperature, and pressure sensors. Even the default microphone can act as an acoustic sensor to track noise exposure, for example. These sensors act as a lens to understand the user's context along different dimensions. Data can be passively collected from these sensors without interrupting the user. As a result, this new era of mobile sensing has fueled significant interest in understanding what can be extracted from such sensor data, both instantaneously as well as

considering volumes of time series from these sensors For example GPS logs can be used to determine automatically the significant places associated to a user s life e g home office shopping areas The logs may also reveal travel patterns and how a user moves from one place to another e g driving or using public transport These may be used to proactively inform the user about delays relevant promotions from shops in his regular route Similarly accelerometer logs can be used to measure a user s average walking speed compute step counts gait identification and estimate calories burnt per day The key objective is to provide better services to end users The objective of this book is to inform the reader of the methodologies and techniques for extracting meaningful information called semantics from sensors on our smartphones These techniques form the cornerstone of several application areas utilizing smartphone sensor data We discuss technical challenges and algorithmic solutions for modeling and mining knowledge from smartphone resident sensor data streams This book devotes two chapters to dive deep into a set of highly available commoditized sensors the positioning sensor GPS and motion sensor accelerometer Furthermore this book has a chapter devoted to energy efficient computation of semantics as battery life is a major concern on user experience

Validating RDF Data Jose Emilio Labra Gayo, Eric Prud'hommeaux, Iovka Boneva, Dimitris Kontokostas, 2022-05-31 RDF and Linked Data have broad applicability across many fields from aircraft manufacturing to zoology Requirements for detecting bad data differ across communities fields and tasks but nearly all involve some form of data validation This book introduces data validation and describes its practical use in day to day data exchange The Semantic Web offers a bold new take on how to organize distribute index and share data Using Web addresses URIs as identifiers for data elements enables the construction of distributed databases on a global scale Like the Web the Semantic Web is heralded as an information revolution and also like the Web it is encumbered by data quality issues The quality of Semantic Web data is compromised by the lack of resources for data curation for maintenance and for developing globally applicable data models At the enterprise scale these problems have conventional solutions Master data management provides an enterprise wide vocabulary while constraint languages capture and enforce data structures Filling a need long recognized by Semantic Web users shapes languages provide models and vocabularies for expressing such structural constraints This book describes two technologies for RDF validation Shape Expressions ShEx and Shapes Constraint Language SHACL the rationales for their designs a comparison of the two and some example applications

Linked Data Visualization Laura Po, Nikos Bikakis, Federico Desimoni, George Papastefanatos, 2022-05-31 Linked Data LD is a well established standard for publishing and managing structured information on the Web gathering and bridging together knowledge from different scientific and commercial domains The development of Linked Data Visualization techniques and tools has been followed as the primary means for the analysis of this vast amount of information by data scientists domain experts business users and citizens This book covers a wide spectrum of visualization issues providing an overview of the recent advances in this area focusing on techniques tools and use cases of visualization and visual analysis of LD It presents the basic concepts related to data

visualization and the LD technologies the techniques employed for data visualization based on the characteristics of data techniques for Big Data visualization use tools and use cases in the LD context and finally a thorough assessment of the usability of these tools under different scenarios The purpose of this book is to offer a complete guide to the evolution of LD visualization for interested readers from any background and to empower them to get started with the visual analysis of such data This book can serve as a course textbook or a primer for all those interested in LD and data visualization

Provenance Luc Moreau,Paul Groth,2022-06-01 The World Wide Web is now deeply intertwined with our lives and has become a catalyst for a data deluge making vast amounts of data available online at a click of a button With Web 2 0 users are no longer passive consumers but active publishers and curators of data Hence from science to food manufacturing from data journalism to personal well being from social media to art there is a strong interest in provenance a description of what influenced an artifact a data set a document a blog or any resource on the Web and beyond Provenance is a crucial piece of information that can help a consumer make a judgment as to whether something can be trusted Provenance is no longer seen as a curiosity in art circles but it is regarded as pragmatically ethically and methodologically crucial for our day to day data manipulation and curation activities on the Web Following the recent publication of the PROV standard for provenance on the Web which the two authors actively help shape in the Provenance Working Group at the World Wide Web Consortium this Synthesis lecture is a hands on introduction to PROV aimed at Web and linked data professionals By means of recipes illustrations a website at www.provbook.org and tools it guides practitioners through a variety of issues related to provenance how to generate provenance publish it on the Web make it discoverable and how to utilize it Equipped with this knowledge practitioners will be in a position to develop novel applications that can bring open ness trust and accountability Table of Contents Preface Acknowledgments Introduction A Data Journalism Scenario The PROV Ontology Provenance Recipes Validation Compliance Quality Replay Provenance Management Conclusion Bibliography Authors Biographies Index

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