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Programming The Semantic Web

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Type-safe Programming for the Semantic Web Martin Leinberger, 2021 **Semantic Web Programming** John Hebel, Matthew Fisher, Ryan Blace, Andrew Perez-Lopez, 2011-02-25 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 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 site features full code as well as a reference section a FAQ section a discussion forum and a semantic blog

Type-Safe Programming for the Semantic Web Martin Leinberger, 2021-10-15 Graph based data formats are a flexible way of representing data semantic data models in particular where the schema is part of the data and have become more popular and had some commercial success in recent years Semantic data models are also the basis for the Semantic Web a Web of data governed by open standards in which computer programs can freely access the data provided This book is about checking the correctness of programs that can access semantic data Although the flexibility of semantic data models is one of their greatest strengths it can lead programmers to accidentally fail to account for unintuitive edge

cases leading to run time errors or unintended side effects during program execution A program may even run for a long time before such an error occurs and the program crashes Providing a type system is an established methodology for proving the absence of run time errors in programs without requiring execution The book defines type systems that can detect and avoid such run time errors based on schema languages available for the Semantic Web Using the Web Ontology Language OWL and its theoretic underpinnings i e description logics and the Shapes Constraint Language SHACL in particular the book defines systems that can provide type safe data access to semantic data graphs The book is divided into 3 parts Part I contains an introduction and preliminaries Part II covers type systems for the Semantic Web and Part III includes related work and conclusions

Semantic Web Programming John Hebel, Matthew Fisher, Ryan Blace, Andrew Perez-Lopez, 2009-05-27 Semantic Web Programming takes the semantic web directly and boldly into solving practical real world problems Hands on code examples drive the understanding of this new powerful technology that can unify and fully leverage the growing sea of data information and services available on the Internet As the code examples build the reader explores the many technologies that form the semantic web including the knowledge representations such as Resource Description Framework RDF Web Ontology Language OWL and Semantic Web Rule Language SWRL the programming interfaces including Jena and Sesame and an integrated view of the tools to build and support semantic web applications Part One Introducing Semantic Web Programming Preparing to Program a Semantic Web of Data Hello Semantic Web World Part Two Foundations of Semantic Web Programming Modeling Information Incorporating Semantics Modeling Knowledge in the Real World Discovering Information Adding Rules Part Three Building Semantic Web Applications Applying a Programming Framework Combining Information Aligning Information Sharing Information Part Four Expanding Semantic Web Programming Developing and Using Semantic Services Managing Space and Time Semantic Web Patterns and Best Practices Moving Forward

Answer Set Programming for the Semantic Web Roman Schindlauer, 2008 The idea behind the Semantic Web is to add machine readable meaning to Web pages enabling the automated interpretation of their semantic content and thus improving the way we express search and discover knowledge in the Internet The Semantic Web requires not only a suitable knowledge representation formalism to describe such data but also a rule language to specify how to process it This book represents a contribution to the research efforts of integrating rule based inference methods with Semantic Web vocabulary languages The author Roman Schindlauer first introduces the concepts benefits and challenges of such a combination in general He then proposes a novel integration of logic programming under the answer set semantics with the Web ontology language OWL Moreover he outlines a prototype implementation and presents use cases on the basis of concrete real world scenarios This book is intended for researches and professionals in the areas of logic programming and Semantic Web reasoning

The Semantic Web: Trends and Challenges Valentina Presutti, Claudia d'Amato, Fabien Gandon, Mathieu d'Acquin, Steffen Staab, Anna Tordai, 2014-05-09 This book constitutes the refereed proceedings of the 11th

Extended Semantic Web Conference ESWC 2014 held in Anissaras Crete Greece France in May 2014 The 50 revised full papers presented together with three invited talks were carefully reviewed and selected from 204 submissions They are organized in topical sections on mobile sensor and semantic streams services processes and cloud computing social web and web science data management natural language processing reasoning machine learning linked open data cognition and semantic web vocabularies schemas ontologies The book also includes 11 papers presented at the PhD Symposium *Rules and Rule Markup Languages for the Semantic Web* Asaf Adi,Suzette Stoutenburg,Said Tabet,2005-11-04 RuleML 2005 was the rst international conference on rules and rule markup languages for the Semantic Web held in conjunction with the International Semantic Web Conference ISWC at Galway Ireland With the success of the RuleML workshop series came the need for extended research and applications topics organized in a conference format RuleML 2005 also accommodated the rst Workshop on OWL Experiences and Directions Rules are widely recognized to be a major part of the frontier of the Semantic Web and critical to the early adoption and applications of knowledge based techniques in business especially enterprise integration and B2B e commerce This includes knowledge representation KR theory and algorithms markup languages based on such KR engines translators and other tools relationships to standardization efforts and not least applications Interest and activity in the area of rules for the Semantic Web has grown rapidly over the last ve years The RuleML 2005 Conference was aimed to be this year s premiere scientific conference on the topic It continued in topic leadership and collaboration with the previous series of three highly successful annual international workshops RuleML 2004 RuleML 2003 and RuleML 2002 The theme for RuleML 2005 was rule languages for reactive and proactive rules complex event processing and event driven rules to support the emergence of Semantic Web applications Special highlights of the RuleML 2005 conference included the keynote address by Sir Tim Berners Lee Director of W3C Semantic Web Programming John Hebel,Matthew Fisher,Ryan Blace,Andrew Perez-Lopez,2009-04-13 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 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 site features full code as well as a reference section a FAQ section a discussion forum and a semantic blog

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