

On the Definition of Patterns for Semantic Annotation

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Semantic Web Semantic Annotation of Web Resources

Automatic annotation tools and pattern models

Automatic or semi-automatic annotation tools help making the process scalable using patterns. As the patterns appear in a level previous to the annotation itself, extraction patterns are more flexible and effective regarding changes in the documents because only the patterns, rather than all annotations, need to be modified. But some issues arise:

The Web has very diverse contents... What elements should these patterns recognize? Based on what features?

Context-free grammars are capable of recognizing virtually every natural language construction, but bag of words techniques, wrappers and regular expressions are not

The features most frequently modeled are those referred to the syntax, semantics and format of the text. New types of features usually imply the modification of the schema

The Web is very dynamic... Can we modify and reuse these patterns?

Non-human-readable or complex patterns are harder to modify and hence harder to reuse

To be reused, patterns are recommended to be modifiable and Modular

The Web is huge... How can we reduce the cost of annotating?

The creation of patterns should not be more expensive than manual annotation. The collaborative creation of patterns and their reuse could reduce costs. But the patterns have to be easily accessible first

Standard web languages like OWL or XML would make the patterns easier to access, understand, manage (thanks to appropriate tools) and distribute, promoting their adoption

Scalable processes: automatic annotation tools

Semantic Annotation of Web Resources

Semantic Web Environment



Powerful, flexible, reusable, modifiable, modular, distributable and accessible pattern models

More complexity in the definition of the pattern model
The more complex the pattern model, the lesser their adoption
Standardization reduces the problem, but how can we "create" one?

Proposal

Adopt the **Speech Recognition Grammar Specification (SRGS)**, which has the purpose of guiding speech recognizers on the web by modeling the expected voice commands.

Existence of Formalizations and tools for management

Powerful to recognize context-free languages

Human-readable

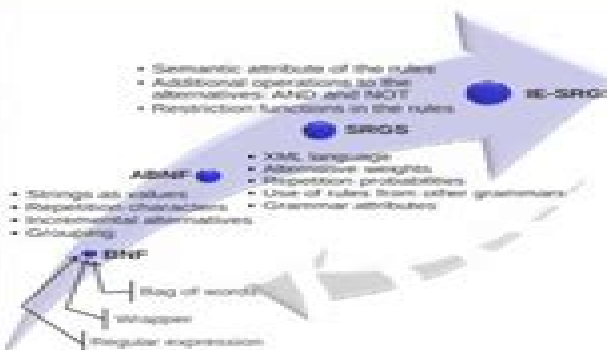
Standard language based on ABNF (Augmented Backus-Naur Form) but more powerful

Web Standard expressed with XML

Can combine rules with references to rules from other grammars

Well defined and accepted DTD to map ABNF constructions to XML (see table with ABNF-SRGS mappings)

	ABNF	XML (SRGS)
Rule definition	A ::= ...	<grammar><rule id="A">...</rule></grammar>
Alternative	A ::= a / b / A / c	<rule id="A"><one-of><item id="a">...</item><item id="b">...</item><item id="c">...</item></one-of></rule>
Alt. weight	-	<item weight="n">...</item>
Repetition	<one-or-more>...</one-or-more>	<item repeat-min-max="n m">...</item>
Repetition probability	-	<item repeat-min-max="n m prob">...</item>
Non-terminal reference	A ::= B C	<rule id="A"><ref ref="B" /><ref ref="C" /></rule>



Conclusions and Future Work

- The adaptation of the SRGS standard offers powerful and flexible patterns, and eases the development of new patterns because of the application of standards offering formalisms and tools, and the easy distribution, reuse and access of the existing patterns.
- Research in the adaptation of the SRGS standard to information extraction is an ongoing work, focused on the automatic generation of such patterns from examples, which would eventually lead to fully automated semantic annotation.

Adaptation of SRGS for Information Extraction

Semantic attribute added to rule element

- Identifies the text semantics, typically a concept of an ontology, with its URI
- The semantics associated to non-terminals allow to specify complex scenarios from simple semantics (e.g. speaker, place and time of a talk)

AND and NOT elements added as children of rule

- Boolean combination of non-terminals
- The AND operator allows to specify diverse restrictions (e.g. format, semantics, syntax, etc.) expressed syntactically by means of vocabularies (e.g. named entity tags, syntax tags, lemmas, HTML tags, characters, etc.)
- These operators can be specially useful for techniques performing some kind of learning based on positive and negative examples

Restriction element added as child of rule

- Identifies functions by their URI
- They can be web services or local functions
- The non-terminal accepts the text only if all functions evaluate to true
- Not all restrictions can be expressed syntactically (e.g. words in a gazetteer), or they are more complex and inefficient (e.g. strong tags in HTML could imply processing very large texts)
- They are variable, depending on the type of document (e.g. strong in HTML or PDF)
- It is possible to create distributed repositories of frequently used functions for certain types of document

Annotation For The Semantic Web

**Rudi Studer, Stephan Grimm, Andreas
Abecker**



Annotation For The Semantic Web Annotation For The Semantic Web:

Annotation for the Semantic Web Siegfried Handschuh, Steffen Staab, 2003 The Digital Library Approach Manual Annotations Wrapping Information Extraction Linguistics Graphics Usage of Annotations **The Semantic Web** Vipul Kashyap, Christoph Bussler, Matthew Moran, 2008-08-15 The Semantic Web is a vision the idea of having data on the Web defined and linked in such a way that it can be used by machines not just for display purposes but for automation integration and reuse of data across various applications However there is a widespread misconception that the Semantic Web is a rehash of existing AI and database work Kashyap Bussler and Moran dispel this notion by presenting the multi disciplinary technological underpinnings such as machine learning information retrieval service oriented architectures and grid computing Thus they combine the informational and computational aspects needed to realize the full potential of the Semantic Web vision *The Semantic Web - ASWC 2006* Riichiro Mizoguchi, Fausto Giunchiglia, 2006-09-01 This book constitutes the refereed proceedings of the First Asian Semantic Web Conference ASWC 2006 held in Beijing China in September 2006 The 36 revised full papers and 36 revised short papers presented together with three invited contributions were carefully reviewed and selected from 208 full paper submissions The papers are organized in topical sections

Semantic Web Services, Processes and Applications Jorge Cardoso, Amit P. Sheth, 2006-12-26 Semantics Web services and Web processes promise better re use universal interoperability and integration Semantics has been recognized as the primary tool to address the challenges of a broad spectrum of heterogeneity and for improving automation through machine understandable descriptions Semantic Web Services Processes and Applications brings contributions from researchers who study explore and understand the semantic enabling of all phases of semantic Web processes This encompasses design annotation discovery choreography and composition Also this book presents fundamental capabilities and techniques associated with ontological modeling or services annotation matching and mapping and reasoning This is complemented by discussion of applications in e Government and bioinformatics Special bulk rates are available for course adoption through Publishing Editor *The Semantic Web - ISWC 2006* Isabel Cruz, Stefan Decker, Dean Allemang, Chris Preist, Daniel Schwabe, Peter Mika, Mike Uschold, Lora Aroyo, 2006-11-03 This book constitutes the refereed proceedings of the 5th International Semantic Web Conference ISWC 2006 held in Athens GA USA in November 2006 It features more than 52 papers that address all current issues in the field of the semantic Web ranging from theoretical aspects to various applied topics An additional 14 papers detail applications in government public health public service academic and industry

Semantic Web Services Rudi Studer, Stephan Grimm, Andreas Abecker, 2007-05-23 In just a few years service oriented architectures SOA and Web services not only gained considerable interest in computer science research they were also taken up with unanimity by all major international players in the IT industry However and in spite of all existing standards in most SOA applications much human intervention is still required for example to interpret the semantics of informal descriptions or

to harmonize incompatible data schemata Semantic Web services combine Web services communication technology with the intelligent processing of ontology based metadata to achieve highly integrated enterprise application integration scenarios for service look up schema matching or protocol negotiation for example Rudi Studer and his team deliver a self contained compendium about this exciting field starting with the basic standards and technologies and also including advanced applications in eGovernment and eHealth The contributions provide both the theoretical background and the practical knowledge necessary to understand the essential ideas and to design new cutting edge applications They address computer science students as well as researchers in academia and industry who need a concise introduction and state of the art survey of current research and the book can easily be used as the basis of a specialized course on Web services or Semantic Web applications In addition IT professionals will be able to assess the potential and possible benefits of this new technology

The Semantic Web: Research and Applications John Francis Davies, Christoph Bussler, Rudi Studer, 2004-09-09 This book constitutes the refereed proceedings of the First European Semantic Web Symposium ESWS 2004 held in Heraklion Crete Greece in May 2004 The 33 revised full papers presented were carefully reviewed and selected from 79 submissions The papers are organized in topical sections on ontology engineering ontology matching and mapping ontology based querying ontology merging and population infrastructure semantic web services service discovery and composition data from the semantic web knowledge presentation applications content management and information management and integration

Semantic Web and Model-Driven Engineering Fernando S. Parreiras, 2012-05-09 The next enterprise computing era will rely on the synergy between both technologies semantic web and model driven software development MDSD The semantic web organizes system knowledge in conceptual domains according to its meaning It addresses various enterprise computing needs by identifying abstracting and rationalizing commonalities and checking for inconsistencies across system specifications On the other side model driven software development is closing the gap among business requirements designs and executables by using domain specific languages with custom built syntax and semantics It focuses on using modeling languages as programming languages Among many areas of application we highlight the area of configuration management Consider the example of a telecommunication company where managing the multiple configurations of network devices routers hubs modems etc is crucial Enterprise systems identify and document the functional and physical characteristics of network devices and control changes to those characteristics Applying the integration of semantic web and model driven software development allows for 1 explicitly specifying configurations of network devices with tailor made languages 2 for checking the consistency of these specifications 3 for defining a vocabulary to share device specifications across enterprise systems By managing configurations with consistent and explicit concepts we reduce cost and risk and enhance agility in response to new requirements in the telecommunication area This book examines the synergy between semantic web and model driven software development It brings together advances from disciplines like ontologies description logics domain

specific modeling model transformation and ontology engineering to take enterprise computing to the next level

Developing Semantic Web Services H.Peter Alesso, Craig F. Smith, 2004-10-27 Developing Semantic Web Services is well informed about work on WS Web Services and the SemWeb Semantic Web and in particular understands OWL S very well Also the book fills a need that to my knowledge hasn't been met at all David Martin editor OWL S Coalition The inventor of the World Wide Web Tim Berners Lee is also the originator of the next generation Web architecture the Semantic Web Currently his World Wide Web consortium W3C team works to develop extend and standardize the Web's markup languages and tools The objective of the Semantic Web Architecture is to provide a knowledge representation of linked data in order to allow machine processing on a global scale The W3C has developed a new generation of open standard markup languages which are now poised to unleash the power flexibility and above all logic of the next generation Web as well as open the door to the next generation of Web Services There are many ways in which the two areas of Web Services and the Semantic Web could interact to lead to the further development of Semantic Web Services Berners Lee has suggested that both of these technologies would benefit from integration that would combine the Semantic Web's meaningful content with Web Services business logic Areas such as UDDI and WSDL are ideally suited to be implemented using Semantic Web technology In addition SOAP could use RDF payloads remote RDF query and updates and interact with Semantic Web business rules engines thereby laying the foundation for Semantic Web Services This book presents the complete Language Pyramid of Web markup languages including Resource Description Framework RDF Web Ontology Language OWL and OWL Services OWL S along with examples and software demos The source code for the Semantic Web Author an Integrated Development Environment for Semantic Markup Languages is available on CD ROM with the book **The Semantic Web - ISWC 2009**

Abraham Bernstein, David R. Karger, Tom Heath, Lee Feigenbaum, Diana Maynard, Enrico Motta, Krishnaprasad Thirunarayan, 2009-11-06 As the Web continues to grow increasing amounts of data are being made available for human and machine consumption This emerging Semantic Web is rapidly entering the mainstream and as a result a variety of new solutions for searching aggregating and the intelligent delivery of information are being produced both in research and commercial settings Several new challenges arise from this context both from a technical and human computer interaction perspective e.g. as issues to do with the scalability and usability of Semantic Web solutions become particularly important The International Semantic Web Conference ISWC is the major international forum where the latest research results and technical innovations on all aspects of the Semantic Web are presented ISWC brings together researchers practitioners and users from the areas of artificial intelligence databases social networks distributed computing Web engineering information systems natural language processing soft computing and human computer interaction to discuss the major challenges and proposed solutions success stories and failures as well the visions that can advance the field

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