

Arabic Semantic Web Applications – A Survey

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Abstract— Arabic Language is the mother tongue for 23 countries and more than 350 million persons. It is the language of the Holy Quran; therefore, many non-Arabic Islamic countries, like Pakistan, teach Arabic as a second language. Nevertheless, it is observable that the Arabic content on the Web is less than what should be. The evolution of the Semantic Web (SW) added a new dimension to this problem. This paper is an attempt to figure out the problem, its causes, and to open avenues to think about the solutions. The survey presented in this paper concerned with the SW applications regarding the Arabic Language in the domains of Ontology construction and utilization, Arabic WordNet (AWN) exploiting and enrichment, Arabic Named Entities Extraction, Holy Quran and Islamic Knowledge semantic representation, and Arabic Semantic Search Engines. In fact, the study revealed serious deficiencies in dealing semantically with the Arabic Language. That is mainly owing to the rarity of tools that can support the Arabic script. Furthermore, the Arabic resources, if available, are not free. Moreover, there are many technical problems in the semantic dealing with the Arabic context. Therefore, most of the developed applications are not sufficiently proficient. However, due to the significance of the Arabic Language, it is inevitable to overcome these deficiencies in order to put the Arabic Language in the category of the machine-semantically-interpretable languages, rather than just the textually-processable ones. This way, we can exploit the power of the Semantic Web features in extracting the essence of the knowledge residing in the Arabic web documents and going beyond dealing with its rigid texts.

Index Terms— Semantic Web (Web 3.0), Arabic Language, Islamic Knowledge, Named Entity Extraction (NEE), Semantic Search Engine (SSE)

I. INTRODUCTION

The term 'Semantic Web' was coined by Tim Berners-Lee, the inventor of the World Wide Web and the director of the World Wide Web Consortium ("W3C"), which oversees the development of proposed Semantic Web standards. Tim Berners-Lee defined the Semantic Web as "a web of data that can be processed directly and indirectly by machines." He originally expressed the vision of the Semantic Web as follows: "To a computer,

the Web is a flat, boring world devoid of meaning. A new form of Web content that is meaningful to computers will unleash a revolution of new possibilities. The Semantic Web (SW) is not a separate Web but rather an extension of the current one, in which information is given well-defined meaning. Adding semantics to the Web involves allowing documents which have information in machine-readable forms and allowing links to be created with relationship values" [1; 2]. SW, therefore, can enhance the currently existing Web by the interposition of a machine interpretable layer that holds the metadata of the Web document. This metadata will allow computer software to understand what the Web page is about, and thus draw conclusions about it. This revolutionary invention can be utilized by software agents, so the information can easily be found, shared, integrated, and exchanged [3; 4].

An expected contribution of the Semantic Web technology, if it becomes satisfactorily actuated over the World Wide Web, is to extremely enhance the extractability, exchangeability, and hence growth of knowledge on the Web regardless of its rationality, language and expression style. That can be achieved due to the utilization of a unified representation of the concepts in a standard machine interpretable language regardless of the native language of the user [5; 6; 7]. It is therefore vital for all natural languages, especially those that have a broad base of users, to be supported by the SW tools and applications. Among these natural languages is the Arabic Language. Besides that the Arabic is the language of a significant number of people; it is one of the strongest, richest and most languages able to articulate in the world. The SW, likewise, is the strongest technology that emerged in the field of Web till now. Thus, the integration of these two giants yields a capability that cannot be erudited.

This survey reviews the studies that addressed the Arabic Language and made efforts in order to support it in the environment of the SW. The reviewed studies were grouped thematically in four groups, each of which addressing an essential aspect of developing an Arabic SW application, which are the Arabic Ontologies development and utilization, the Arabic Named Entities Extraction (ANEE), the Islamic Knowledge Semantic

Arabic Language And Semantic Web

Aya Al-Zoghby



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Intelligent Natural Language Processing: Trends and Applications Khaled Shaalan, Aboul Ella Hassanien, Fahmy Tolba, 2017-11-17 This book brings together scientists researchers practitioners and students from academia and industry to present recent and ongoing research activities concerning the latest advances techniques and applications of natural language processing systems and to promote the exchange of new ideas and lessons learned Taken together the chapters of this book provide a collection of high quality research works that address broad challenges in both theoretical and applied aspects of intelligent natural language processing The book presents the state of the art in research on natural language processing computational linguistics applied Arabic linguistics and related areas New trends in natural language processing systems are rapidly emerging and finding application in various domains including education travel and tourism and healthcare among others Many issues encountered during the development of these applications can be resolved by incorporating language technology solutions The topics covered by the book include Character and Speech Recognition Morphological Syntactic and Semantic Processing Information Extraction Information Retrieval and Question Answering Text Classification and Text Mining Text Summarization Sentiment Analysis Machine Translation Building and Evaluating Linguistic Resources and Intelligent Language Tutoring Systems

Arabic Language Processing: From Theory to Practice Kamel Smaïli, 2019-10-04 This book constitutes revised selected papers from the 7th International Conference on Arabic Language Processing ICALP 2019 held in Nancy France in October 2019 The 21 full papers presented in this volume were carefully reviewed and selected from 38 submissions They were organized in topical sections named Arabic dialects and sentiment analysis neural techniques for text and speech modeling modern standard Arabic resources analysis disambiguation and evaluation

The International Conference on Advanced Machine Learning Technologies and Applications (AMLT2019) Aboul Ella Hassanien, Ahmad Taher Azar, Tarek Gaber, Roheet Bhatnagar, Mohamed F. Tolba, 2019-03-16 This book presents the peer reviewed proceedings of the 4th International Conference on Advanced Machine Learning Technologies and Applications AMLTA 2019 held in Cairo Egypt on March 28 30 2019 and organized by the Scientific Research Group in Egypt SRGE The papers cover the latest research on machine learning deep learning biomedical engineering control and chaotic systems text mining summarization and language identification machine learning in image processing renewable energy cyber security

and intelligence swarms and optimization *Knowledge Engineering and Semantic Web* Pavel Klinov,Dmitry Mouromtsev,2015-09-29 This book constitutes the refereed proceedings of the 6th Conference on Knowledge Engineering and the Semantic Web KESW 2015 held in Moscow Russia in September October 2015 The 17 revised full papers presented together with 6 short system descriptions were carefully reviewed and selected from 35 submissions The papers address research issues related to semantic web linked data ontologies natural language processing knowledge representation

The Semantic Web Eva Blomqvist,Diana Maynard,Aldo Gangemi,Rinke Hoekstra,Pascal Hitzler,Olaf Hartig,2017-05-15 The two volumes LNCS 10249 and 10250 constitute the refereed proceedings of the 14th International Semantic Web Conference ESWC 2017 held in Portoro Slovenia The 51 revised full papers presented were carefully reviewed and selected from 183 submissions In addition 10 PhD papers are included selected out of 14 submissions The papers are organized in the following tracks semantic data management big data and scalability linked data machine learning mobile web sensors and semantic streams natural language processing and information retrieval vocabularies schemas and ontologies reasoning social web and web science semantic web and transparency in use and industrial track and PhD symposium The paper Linked Data Notifications A Resource Centric Communication Protocol is published open access under a CC BY 4.0 license at link springer.com

Computational Linguistics and Intelligent Text Processing Alexander Gelbukh,2015-04-09 The two volumes LNCS 9041 and 9042 constitute the proceedings of the 16th International Conference on Computational Linguistics and Intelligent Text Processing CICLing 2015 held in Cairo Egypt in April 2015 The total of 95 full papers presented was carefully reviewed and selected from 329 submissions They were organized in topical sections on grammar formalisms and lexical resources morphology and chunking syntax and parsing anaphora resolution and word sense disambiguation semantics and dialogue machine translation and multilingualism sentiment analysis and emotion detection opinion mining and social network analysis natural language generation and text summarization information retrieval question answering and information extraction text classification speech processing and applications

Natural Language Processing and Information Systems Elisabeth Métais,Mathieu Roche,Maguelonne Teisseire,2014-06-16 This book constitutes the refereed proceedings of the 19th International Conference on Applications of Natural Language to Information Systems NLDB 2014 held in Montpellier France in June 2014 The 13 long papers 8 short papers 14 poster papers and 7 demo papers presented together with 2 invited talks in this volume were carefully reviewed and selected from 73 submissions The papers cover the following topics syntactic lexical and semantic analysis information extraction information retrieval and sentiment analysis and social networks

Data Science And Knowledge Engineering For Sensing Decision Support - Proceedings Of The 13th International Flins Conference Jun Liu,Jie Lu,Yang Xu,Luis Martinez,Etienne E Kerre,2018-07-30 FLINS originally an acronym for Fuzzy Logic and Intelligent Technologies in Nuclear Science is now extended to include Computational Intelligence for applied research The contributions of the FLINS conference cover state of the art research development and

technology for computational intelligence systems with special focuses on data science and knowledge engineering for sensing decision support both from the foundations and the applications points of view *Information Systems Applications in the Arab Education Sector* Albadri, Fayez, 2012-08-31 This book is a rich source of knowledge about educational reforms through the adoption of information systems applications and technologies in the Arab region covering current initiatives approaches issues and challenges in the Arab education sector Provided by publisher

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