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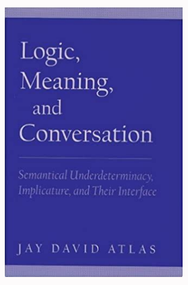

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Natural Language Generation and Translation Technologies[1]

1. Introduction

New technologies and the arrival of globalization have had such an impact on the field of translation, that nowadays, in the current Information Society, it is unthinkable for a translator to work without making use of the so-called Translation Technologies (TT). These are software applications that automate translation project management, allow collaborative teamwork in virtual environments, optimize performance, and guarantee quality by the use of computer-assisted tools (CAT) and terminology databases (cf. Alcina, 2004; Langewis, 2004). By extension, Translation Technologies can be defined as a subdiscipline of Language Technologies that bears relation to Translation Studies, Natural Language Processing and Computational Linguistics and that covers, according to the Translation Technologies Watch[2], the following areas: creation, management and exploitation of corpora, translation memories, software localization, creation and management of terminology databases, pre- and post-editing techniques, controlled languages, standards used in the translation industry, and machine translation (MT). A more recent and innovative technology can be added to the aforementioned ones: natural language generation (NLG), also called text generation.

Natural language generation consists in the production of natural language texts from an abstract semantic knowledge representation, called interlingua (cf. Scott and Evans, 1998; Juratsky and Martin, 2000), and stands out as one of the most innovative fields within Translation Technologies. Recently, John Hutchins, one of the great precursors of TT and MT, considered the incipient research on NLG to be one of the most promising fields in the area of TT and pointed out that it would be eventually integrated into MT systems:

> Users will want seamless integration of information retrieval, extraction and summarization systems with translation. Research has begun in such areas as cross-lingual information retrieval, multilingual summarization, multilingual text generation from databases, and so forth and, before many years, there may well be systems available on the market and the Internet. (Hutchins, 2005: 3)

The importance of Translation Technologies is demonstrated when we take into account the large number of projects related to language engineering and translation that have been carried out in Europe, North America and Spain for years. Furthermore, text generation has been the object of numerous European research projects, financed by the several Framework Programmes of the European Community, especially the last ones: Human Language Technologies (1998-2002), e-Content (2001-2004), Information Society Technologies (IST) —within the Sixth Framework Programme (2002-2006)— and e-Contentplus (2005-2008).

In Spain, the University of Malaga has specifically a wide experience in multilingual text generation, on which it has been working since 1999. The first project dealing with this subject, called *A Textual Typologiser for the Machine-Translation of Legal Texts (Spanish/English/German/Italian/Arabic)* [*Diseño de un tipologizador textual para la traducción automática de textos jurídicos (español/inglés/alemán/italiano/árabe)*] (Spanish Ministry of Education and Science, ref. no. PB98-1399), was focused on the elaboration of a corpus-based NLG system for the automatic production of real estate purchase contracts (see Corpas Pastor, 2003a). The next project about NLG, currently going on, involves the study of corpus-based multilingual NLG for the production of tourism contracts: *TURICOR: A multilingual corpus of tourism contracts (German, Spanish, English, Italian) for automatic text generation and legal translation* [*TURICOR: compilación de un corpus de contratos turísticos (alemán, español, inglés, italiano) para la generación textual multilingüe y la traducción jurídica*] (Spanish Ministry of Science and Technology, ref. no. BBF2003-04616, 2003-2006). A new project will continue the research into GLN: *Multilingual electronic tourism contracts as intercultural mediation: legal, translation and terminological aspects* [*La contratación turística electrónica multilingüe como mediación intercultural: aspectos legales, traductológicos y terminológicos*] (Junta de Andalucía, HUM-892).

2. What is natural language generation?

Many authors have proposed definitions of natural language generation. Some of the most relevant are the ones formulated by Hovy (1996) and Reiter and Dale (2000: 1). The former states the following: "The area of study called natural language generation (NLG) investigates how computer programs can be made to produce high-quality natural language text from computer-internal representations of information". For Reiter and Dale (2000: 1), NLG systems are computer software systems that start from some type of non-linguistic representation of

[1] The research reported in this paper has been carried out in the framework of R & D projects Ref. nos. BBF2003-04616 (Funding source: Spanish Ministry of Science and Technology, National R&D Program, and European Union, European Regional Development Fund-ERDF, 2003-2006) and HUM-892 (Andalusian Ministry for Education, Spain, 2006-2009).
[2] The Translation Technologies Watch (Observatorio de Tecnologías de la Traducción) is a thematic network financed by the Spanish Ministry of Education and Science in the field of Translation and Information Technologies (ref.: TIC2002-11705-E). Website: http://www.uem.es/web/ctt/ [Last visited: 15-8-2006].

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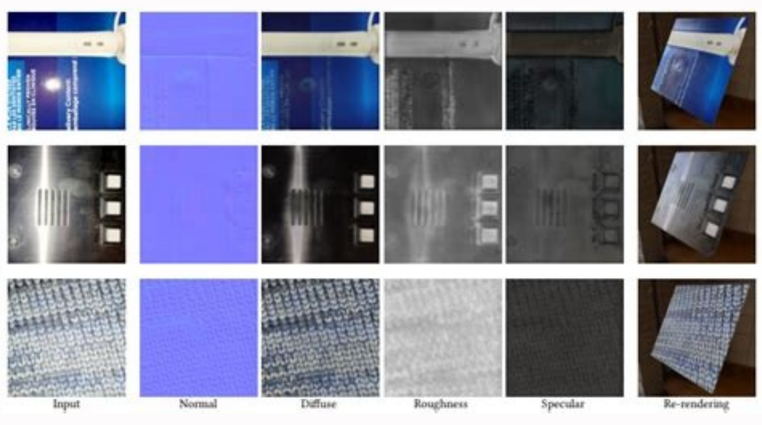

Short for the processing of natural language, NLP is an artificial intelligence branch that deals with analyzing, understanding and generating the languages that humans naturally use to interact with computers in written and spoken contexts using natural human languages rather than computer languages. Challenges of Natural Language Processing One of the challenges inherent in natural language processing is to teach computers to understand how humans learn and use language. Take, for example, the phrase “Baby swallows fly”. This simple phrase has multiple meanings, depending on whether the word "swallows" or the word "fly" is used as the verb, which also determines whether "baby" is used as a noun or adjective. In the course of human communication, the meaning of the phrase depends both on the context in which it is communicated and on the understanding of each person of ambiguity in human languages. This phrase poses problems for the software that should first be programmed to understand the context and linguistic structures. NLP is also known as computer language. Title Natural Language Processing Author(s) Joseph Booth Editor: Syncfusion Inc. (2018) Paperback N/A ebook HTML, PDF, Kindle (mobi) Language: English ISBN-10: N/A ISBN-13: N/A Share This: Book Description Modern Natural Language Processing (NLP) techniques based on machine learning radically improve the ability of software to recognize patterns, use accurate intentlyfer The important intelligence assistants. But the complexities of these systems constitute a significant barrier for developers. This book will guide readers by designing a simple system that can interpret and provide reasonable answers to the written text in English. With this foundation, the readers ed ed soÂfased seroyam sol ratnerfne arap sodaraperp language development. Readers explore carefully-chosen examples and expand their machine's knowledge which they can then apply to a range of challenges. Natural Language Processing What We're Building Extracting Sentences Extracting Words Tagging Entity Recognition Knowledge Base Answering Questions Cloudmersive Google Cloud NLP API Microsoft Cognitive Services Other NLP Uses Summary Penn Treebank Tags Universal POS Tags About the Code About the Authors Reviews, Rating, and Recommendations: Related Book Categories: Read and Download Links: Natural Language Processing Succinctly (Joseph Booth) Similar Books: AI assistants represent a significant frontier for development. But the complexities of such systems pose a significant barrier for developers. In Natural Language Processing Succinctly, author Joseph Booth will guide readers through designing a simple system that can interpret and provide reasonable responses to written English text. With this foundation, readers will be prepared to tackle the greater challenges of natural language development. Natural Language Processing What We're Building Extracting Sentences Extracting Words Tagging Entity Recognition Knowledge Base Answering Questions Cloudmersive Google Cloud NLP API Microsoft Cognitive Services Other NLP Uses Summary Penn Treebank Tags Universal POS Tags About the Code When it comes to the field of natural language processing, it ends up that we are actually talking about a very broad number of related concepts, techniques, and approaches. Word vectors, dependency parsing, text classification, regular expressions, language models, speech translation; these can all be lumped together under the banner of NLP, though they are very different tasks and techniques. Given the very broad and wide ranging nature of this field ¢ÃÂÂ a field which is developing at a rapid pace ¢ÃÂÂ gaining a strong foundation of basic concepts, and doing so in a practical manner, ♪♪ ♪♪ ♪♪ ♪♪♪

stored in the language in formats are stored in the CNL. . From the processing of natural language with the python chapter 7. The book begins slowly, describing the NLP, how python it can be used to perform some NLP programming tasks, how S Big, both conceptually (NLP) programmitically (Python). Soon it reaches categorization, the text classification, the extraction of information and other topics most frequently considered as closes. After obtaining the basic concepts of NLP with this book, it can go to modern and avant -garde techniques, perhaps through the use of materials such as some of Stanford's free courses. Good luck for everyone, the processing waters of natural language ride. This is a great book to begin with, and one that can be absorbed relatively rapid given its short length, which means that it can go to more advanced issues in a short time. "Related: Laura Kapfer photo about a former Unsplasha colleague recently contacted and requested advice on the best way to learn natural language processing (NLP) from scratch." Great! "Thought; The same question for another former colleague, so it should have been as simple as the previous answer dirty,? Well, it could have been except for a small detail: I have no idea of the list of the list list etaidemretni eht ot edoc ot nrael si od ot deen uoy gniht tsrif yrev eht lareneg ni gninrael enihcam ro yllacificeps PLN nrael ot gnikool era uoy fi ,dne taht oT.snoitautis railimafnu ot tpada ot elbanu saw I ,os dna nohtyP ta tneiciforp tÃÂ € Â ¢ NSAW I, TUUP YLPMIS? 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While the book covers everything, from lognetic returns to neural networks (including a discussion about the attention for NLP), the true strength is the discussion of the authors of which different techniques are used in addition to Explain how they are made. As such, the automatic end -to -end learning project of capãtulo 2, as well as the verification list of the automatic learning project of the Apã Índex, are worth the cost of the book. Learn more about this text, as well as to execute the accompaniment before notebooks without downloading or installing anything, visit the author's repository. Practical natural language processing The first NLP book that would read is this jewel. What does it so good? This book adopts an approach based on the task that presents a problem and then asks how can be solved using NLP. In addition, it presents applications in disparate fields such as social networks, finance and law. In addition, almost all problems are solved with multiple approaches so that the reader is introduced into the main PNL libraries such as Spacy, Nltk, Textblob, Gensim and Mã¡s. Have an NLP understanding, we expand what you can do with him. One way to learn about what is possible is to observe how people have used NLP to find solutions to commercial problems. And that is exactly the role that this book serves; It contains ~ 100 cases of common use with blue impressions. But how are the impressions of the earrings? â‚¬ In essence, they are templates that, since it is competent in Python, can adapt mismately to adapt to its specific use case. He is heading to the book's repository to leave a star and see Examples. Transformers for natural language processing. What are the transformers? I'm sorry, but that is more than the reach of this article but, if you really want idea. Once you have it, be sure to review the Denis Rothman's Página Giro text that covers topics such as fine adjustment and pre -length models along with use cases. To get more information about this text, click here. Books to fill in the gapsmieras I consider that the previous texts are basic, you can never know too much about how your tools work. As such, the following books provide deep immersions in some ã ostile tools. Mastering Spa Cy in Duygu Altä ± nok should be to go to guide to learn everything about spa ci.Trabaja through approach (almost) any automatic learning problem by Abhishek Thakur that is similar to Hands-on Machine Learning with scikit-learning, keras & tensorflow but uses Pytorch. Starting with Google Bert by Sudharsan Ravichandiran is an excellent text to wrap your head around Bert architecture. Conclusion Meanwhile I am a big fan of all the books mentioned above, I have no doubt that I have omitted some that must be included. To this end, please leave a comment with the book (s) that you would recommend for someone who wants to start your trip to NLP in the new year. Feliz Coding! Coding!

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