

Research Summary on the Natural Language Processing

Natural language processing, or NLP for short, is what computers used to understand human language. Giving computers the ability to understand and analyze human speech and language in general gives computers scientists the ability to automate many processes such as translation, speech recognition, subtitling and many more.

The difficult in natural language processing doesn't lie in making computers understand spoken words but rather in getting to understand the meaning behind them and the thoughts that are provoking them as well as the concepts that they are meant to be explaining. Furthermore, human language as precise and as clear as programming languages. The presence of slang, dialects and accents further complicates the task of speech recognition.

The main goal of natural language processing is to turn all the information that is written and available in natural human language into data that can be understood and used by computers.

One of the main benefits of natural language processing is the extent to which it improves a user's search for information. Thanks to natural language processing, the computer will be able to understand when the user writes an abbreviated version of the intended subject or an acronym for example. Google has been focusing on question answering so that when the user types a question in natural language into the search engine, it knows exactly what kind of answer the user is expecting. By doing this, they are trying to minimize the amount of searches the user needs to do to reach the answer sought.

Another use for natural language processing is automatic summarization. There is so much information available to us today, we need a way to sort through it all to know what will be useful to us.

Website I used:

<http://searchcontentmanagement.techtarget.com/definition/natural-language-processing-NLP>

<https://blog.algorithmia.com/introduction-natural-language-processing-nlp/>

<http://www.expertsystem.com/examples-natural-language-processing/>

<https://www.lifewire.com/applications-of-natural-language-processing-technology-2495544>