

Nuid : 03137910
Lefebvre Nelson

Reading on AI: Modern Challenge: Winograd Schema Challenge

The things that struck me in the document, it is the difficulty of languages and when the text talks about the interpretation of the language with the schema of Winograd etc..but above all how we can interpret these sentences. A language is a very complex medium that can call upon various notions (cultural notions, subjects that differ, the region in which the language is spoken...) That we group in a very specific category of AI: Natural language processing.

In my 3rd year internship project, I had to create an AI capable of listening to a spoken word to determine if an audio recording corresponded to a weather report in order to retransmit it to the interlocutor. And we opted for a very archaic analysis that determined if the words in a database were in the retransmission of the oral into text. The problem being that the subject can differ but be close to the context. The example we found was the analysis of a context in a book story that may use a description of the weather, without being the weather. The problem is almost the same with Winograd's scheme since often the problem of interpretation is the notion of the text, for example with the wrong interpretation of carcinogen and pregnant.

But we were also told in a meeting in our university about the retransmission of information for the blind people. One of the big problems in natural language processing is the retranscription of spoken text since the accent, the semantics and the different voices (robotic or more natural) can influence the interpretation of the retranscribed sentence.

To conclude we can say that the human languages whether it is English or another it's very complex and calls different orders in the interpretation, cultural notion etc.. And AI has to use several notions to try to interpret the sentences of an interlocutor.