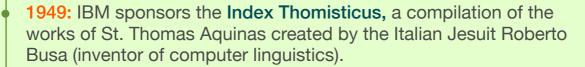


The evolution of natural language processing and its algorithms







1950: Alan Turing publishes the article *Computational machines* and intelligence, where he proposes the **Turing Test** to determine whether a machine can think or not.



1954: The Georgetown-IBM experiment achieves the automatic translation of more than sixty sentences from Russian into English, giving a boost to computational linguistics.



1956: John McCarthy, Marvin Minsky and Claude Shannon coin the term **"artificial intelligence"** at the Dartmouth Conference.



1960s: Pattern recognition and "nearest neighbour" algorithms are introduced.



1980s: Machine learning algorithms are introduced and natural language generation takes off.



1990s: Advanced speech recognition and topic modelling technologies are introduced.



2000s: More advanced statistical and topic models, such as LDA, are introduced. The term **"deep learning"** also emerged.



2010s: Translation with **neural machines**, i.e. without human intervention, is implemented and conversational artificial intelligence takes a leap forward.



2020s: More and more business sectors will apply this technology and, together with **machine vision**, it will enable the new challenges of Industry 4.0 to be met.

Source: Deloitte.

