

CERLL RESEARCH TALK

Text mining as an AI technique to support reading comprehension and language learning by **Eliseo Reategui**, Federal University of Rio Grande do Sul

Zoom link: <https://zoom.us/j/2842317701> **Meeting ID:** 284 231 7701

Bio:

Eliseo Reategui has a PhD degree in Computer Science from the University of London, England, with emphasis on Artificial Intelligence (AI). Eliseo Reategui is a professor at the Faculty of Education, at the Federal University of Rio Grande do Sul (UFRGS), Brazil, carrying out research on the uses of technology in Education. He was also a Fulbright Visiting Scholar at University of California Irvine in 2012.

Abstract:

Text mining is a subfield of Artificial Intelligence concerned with natural human language processing to extract relevant information from written material. However, unlike structured data that is organized in records, spreadsheets and other formats, natural language is less predictable and more difficult to analyze. In this talk I will discuss the uses of text mining to extract knowledge from texts to represent it in a graphical way, providing a visual representation of concepts and ideas that may support reading comprehension and language learning. This principle is based on previous research that has shown how nonlinguistic representations can help students enhance their understanding of written material. I will show the results of some studies carried out with the Sobek text mining tool and present new technology that is currently being developed to support reading comprehension and language learning tasks.