Special Issue

Artificial Intelligence Methods for Assessing Speech, Language, and Communication Functioning

Message from the Guest Editors

Computational methods for language assessment have become increasingly important in recent years as they offer new possibilities for measuring and enhancing speech, language, and communication skills in various clinical populations. Among these methods, artificial intelligence (AI), machine learning, natural language processing, and signal processing can provide objective and reliable indicators of speech and language functioning, which can inform the diagnosis, prognosis, and treatment evaluation of patients with neurocognitive disorders, such as aphasia and speech impairments caused by stroke, dementia, or traumatic brain injury.This Special Issue aims to showcase the latest developments and applications of computational language assessment in this domain. We invite submissions of original research articles, reviews, or protocol papers that present novel algorithms and models for assessing and scoring speech and language performance in patients with neurocognitive conditions. We also welcome studies that demonstrate the validity, reliability, and security of these methods, as well as their implications for clinical practice and education.

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Deadline for manuscript submissions

closed (25 May 2024)

Brain Sciences

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Impact Factor 2.7
CiteScore 4.8
Indexed in PubMed

mdpi.com/si/169084

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You are invited to contribute a research article or a comprehensive review for consideration and publication in *Brain Sciences* (ISSN 2076-3425). *Brain Sciences* is an open access, peer-reviewed scientific journal that publishes original articles, critical reviews, research notes, and short communications on neuroscience. The scientific community and the general public can access the content free of charge as soon as it is published.

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