

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.

Guest Editors

Dr. Charalambos Themistocleous
ISP, University of Oslo, 0371 Oslo, Norway

Dr. Kyrana Tsapkini
Department of Neurology, The Johns Hopkins University, Baltimore, MD 21210, USA

Dr. Kyriaki Neophytou
Department of Neurology, The Johns Hopkins University, Baltimore, MD 21210, USA

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
brainsci@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Stephen D. Meriney

Department of Neuroscience, University of Pittsburgh, Pittsburgh, PA
15260, USA

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