Special Issue

Neurocognitive Mechanisms of Bilingual and Multilingual Acquisition and Processing

Message from the Guest Editors

Currently, the number of bilingual/multilingual speakers far outweighs the number of monolingual speakers. Although extensive research in multiple disciplines has investigated how bilingual/multilingual speakers come to learn and master multiple languages, the neurocognitive mechanisms underlying the representation, control, and use of these multiple languages remain unclear. In this special issue, we are cordially inviting all interested scholars from the broad fields of applied linguistics, psycholinguistics, neurolinguistics, cognitive science and neuroscience, experimental psychology, educational psychology, brain imaging, and computational modeling to concert efforts to investigate the neurocognitive mechanisms and their structure and function in the learning and processing of second and foreign languages under different learning conditions and contexts. We particularly welcome contributions addressing the cognitive individual differences (e.g., working memory, attention control, executive functions, cognitive load, language aptitude, implicit/statistical learning, chunking, etc.) in second language acquisition and processing from multidisciplinary perspectives.

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