

上智大学 情報理工学科 日本音声学会 共催講演会

Somatosensory Function in Speech Production and Perception

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時間：13:30 – 15:00

場所：上智大学四谷キャンパス

中央図書館 L-821 会議室

使用言語：日本語

Abstract: The relationship between speech perception and production and their underlying representations lies at the core of the field of speech communication, and is crucial to the understanding of the interface between phonetics and phonology. While most work in this area has focused on contributing motor, auditory, and to some extent visual processes, few studies have examined the somatosensory component. The major themes of my research have attempted to address this deficit, with emphasis on orofacial somatosensory function in speech production and perception. A novel orofacial skin stretch perturbation paradigm has been used in a series of studies to probe the orofacial somatosensory system while excluding involvement of the motor system. By observing behavioral change and electroencephalographic activity in response to the perturbation in speech motor learning and perception, we found a significant role of orofacial somatosensory function in speech processing. The result suggests speech perception and production are intimately linked and accordingly may share common neural mechanisms.

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