

外国語による特別講演会

先端科学技術推進機構では、下記のとおり I(情報・通信・電子)研究部門による外国語の特別講演会を開催いたします。講演内容に関心のある方は、ご出席下さいますようご案内申し上げます。

主催：関西大学先端科学技術推進機構

共催：IEEE Signal Processing Society Kansai Chapter

I(情報・通信・電子)研究部門

開催日時：2019年7月11日(木) 13:00～14:30

開催場所：関西大学 千里山キャンパス
学術フロンティア・コア 3階 会議室

プログラム

【演題】“Cortical Entrainment for Speech
Comprehension in Multi-Talker Environment”

【講師】Prof. Chin-Tuan Tan
The University of Texas , Dallas

【講演内容】

Human verbal communication involves an exchange of information between two or more people in order to convey and receive intended meanings through speech. To be effective, communication requires the ability to deliver a verbal message and the capacity to comprehend the message. Although in everyday life we can reliably follow one speech stream in a multi-talker environment, understanding the underlying brain's mechanism remains as a major challenge in auditory neuroscience.

Speech comprehension has been proposed to rely on cortical entrainment, that is, synchronization between cortical signals and the envelope of the acoustic speech signal (acoustic amplitude envelope). The core framework of cortical entrainment reflects the principle of attentional selection with cortical signals, and demonstrates oscillatory characteristics (particularly, the phase) adjusted to ensure high synchrony to the quasi-rhythmic or rhythmic acoustic amplitude envelope.

Auditory deprivation in humans will also provide a unique insight into this problem, because the origin of the anatomical and functional changes observed in deaf individuals is not only sensory, but also cognitive. This suggests that after plastic reorganization, cortical regions adapt to process a different type of input signal, but preserve the nature of the computation they perform, both at a sensory and cognitive level.

We will present our behavioral and physiological work with hearing impaired speakers (aided/unaided) and normal hearing listeners to demonstrate the cortical entrainment when listening to attended speech.

※ 事前申込み：不要、参加費：無料

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《 会 場 案 内 図 》

関西大学 千里山キャンパス



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