情報科学フロンティア研究院 特別講演会

名古屋工業大学 情報科学フロンティア研究院
名古屋工業大学 グローバル共生情報研究センター
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Statistical Voice Conversion and Its Application to Augmented Speech Production
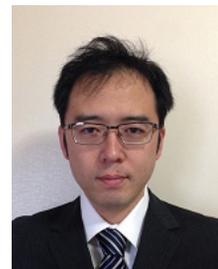
名古屋大学教授　戸田 智基

声質変換研究の第一線で活躍されている戸田智基先生をお招きし
最新の声質変換技術とその応用についてご講演いただきます

日時：2016年11月18日（金）10:30～11:30
場所：名古屋工業大学 4号館1階
　　　　　　　　産学官交流プラザ
対象：一般，大学生，教員

Abstract:
Voice conversion is a technique for modifying speech acoustics, converting non-/para-linguistic information to any form we want while preserving the linguistic content. One of the most popular approaches to voice conversion is based on statistical processing, which is capable of extracting complex conversion functions from a parallel speech data set consisting of utterance pairs of the source and the target voices. Although this technique was originally studied in the context of speaker conversion, which converts the voice of a certain speaker to sound like that of another speaker, it has great potential to achieve various applications beyond speaker conversion. This talk will briefly review the recent progress of statistical voice conversion techniques, and will highlight a technique to achieve a lower conversion delay. Finally this talk will show some potential applications of real-time statistical voice conversion to augment our speech production, making it possible to enhance human-to-human speech communication beyond several constraints.

Biography:
Tomoki Toda received his B.E. degree from Nagoya University, Japan, in 1999 and his M.E. and D.E. degrees from Nara Institute of Science and Technology (NAIST), Japan, in 2001 and 2003, respectively. He was a Research Fellow of the Japan Society for the Promotion of Science from 2003 to 2005. He was then an Assistant Professor (2005-2011) and an Associate Professor (2011-2015) at NAIST. From 2015, he has been a Professor in the Information Technology Center at Nagoya University. His research interests include statistical approaches to speech and sound processing. He received more than 10 paper/achievement awards including the IEEE SPS 2009 Young Author Best Paper Award and the 2013 EURASIP-ISCA Best Paper Award (Speech Communication Journal).

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