

Session Title:

Technologies for Speech Communication in the future Internet

Session Theme:

The Internet led us to the new era of the communication. For instance, the communication can be instantaneously done regardless of the distance even if the other party of the communication is on the other side of the earth. However, although spoken language is the most direct means of communication between human beings, we have not been becoming possible to communicate each other directly across languages via the internet. It is because speech technologies are constructed language-dependently. This special session will provide an opportunity for researchers to discuss how to construct universal communication environments beyond languages in the internet. The speech communication in the future should reach a new domain in which we can communicate each other independent of languages.

Session Organizers:

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Invited Speakers:

Korea

- 1) Joon-Hyuk Chang and coworkers (Hanyang University, Korea), "Voice Activity Detection based on a Statistical Model Employing Deep Neural Network".
- 2) Nam Soo Kim and coworkers (Seoul National University), "Speaker adaptation using nonlinear regression techniques for HMM-based speech synthesis"

Japan

- 1) Takashi Nose (Tohoku University, Japan) and Takao Kobayashi (Tokyo Institute of Technology, Japan), "Quantized F0 Context and Its Applications to Speech Synthesis, Speech Coding and Voice Conversion"
- 2) Masato Akagi, Xiao Han, Reda Elbarougy and Junfeng Li (Japan Advanced Institute of Science and Technology, Japan), "Emotional Speech Recognition and Synthesis in Multiple Languages Toward Affective Speech-to-Speech Translation System"

China

- 1) Mengzhe Chen, Qingqing Zhang, Jielin Pan, Yonghong Yan, (The Key Laboratory of Speech Acoustics and Content Understanding Chinese Academy of Sciences, Beijing, China), "Boosted hybrid HMM/DNN systems based on Correlation-Generated Targets"
- 2) Xuyang Wang, Ta Li, Pengyuan Zhang, Jielin Pan, Yonghong Yan, (The Key Laboratory of Speech Acoustics and Content Understanding Chinese Academy of Sciences, Beijing, China), "Enhanced Out of Vocabulary Word Detection Using Local Acoustic Information"