
Keynote Speech 3

Thursday, 29 October 8:30-9:30

Toward Simultaneous, Natural and Multimodal Speech-to-Speech Translation

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Abstract

Spoken language technologies enable to support natural oral communication. Language barrier between different language speaking people is one of the biggest communication problems for human being. Speech-to-speech translation had been studied in order to break the language barrier. In this talk, I would like to introduce brief history of the speech-to-speech translation research and state-of-the-art speech translation system. Then I would introduce new challenges toward a simultaneous speech-to-speech translation including simultaneous incremental machine translation, joint-optimization of ASR and MT modules, Speech-to-speech translation preserving para/non-linguistic information and multimodal speech translation with a talking face.

Biography

Dr. Satoshi Nakamura is Professor of Graduate School of Information Science, Nara Institute of Science and Technology, Japan, Honorary professor of Karlsruhe Institute of Technology, Germany, and ATR Fellow. He received his B.S. from Kyoto Institute of Technology in 1981 and Ph.D. from Kyoto University in 1992. He was Associate Professor of Graduate School of Information Science at Nara Institute of Science and Technology in 1994-2000. He was Director of ATR Spoken Language Communication Research Laboratories in 2000-2008 and Vice president of ATR in 2007-2008. He was Director General of Keihanna Research Laboratories and the Executive Director of Knowledge Creating Communication Research Center, National Institute of Information and Communications Technology, Japan in 2009-2010.

He is currently Director of Augmented Human Communication laboratory and a full professor of Graduate School of Information Science at Nara Institute of Science and Technology.

He is interested in modeling and systems of speech-to-speech translation and speech recognition. He is one of the leaders of speech-to-speech translation research and has been serving for various speech-to-speech translation research projects in the world including C-STAR, IWSLT and A-STAR.

He received Yamashita Research Award, Kiyasu Award from the Information Processing Society of Japan, Telecom System Award, AAMT Nagao Award, Docomo Mobile Science Award in 2007, ASJ Award for Distinguished Achievements in Acoustics. He received the Commendation for Science and Technology by the Minister of Education, Culture, Sports, Science and Technology, and the Commendation for Science and Technology in Information Technology by the Minister of Internal Affairs and Communications. He was also awarded Antonio Zampolli Prize by European Language Resource Association. He is currently Elected Board Member of International Speech Communication Association, ISCA and Elected Committee Member of IEEE SPS Spoken Language Technology Technical committee.