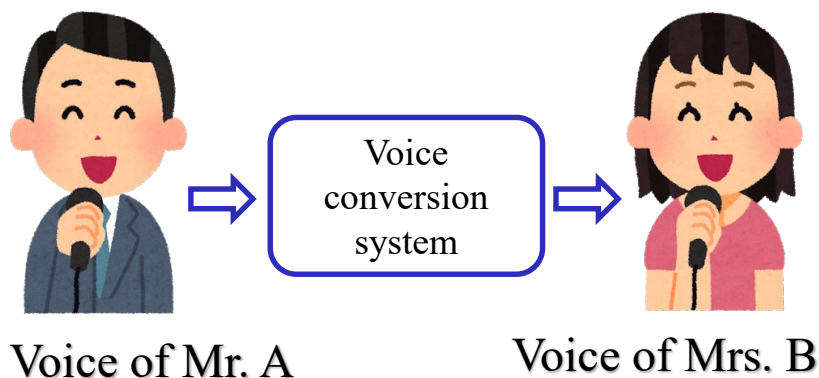


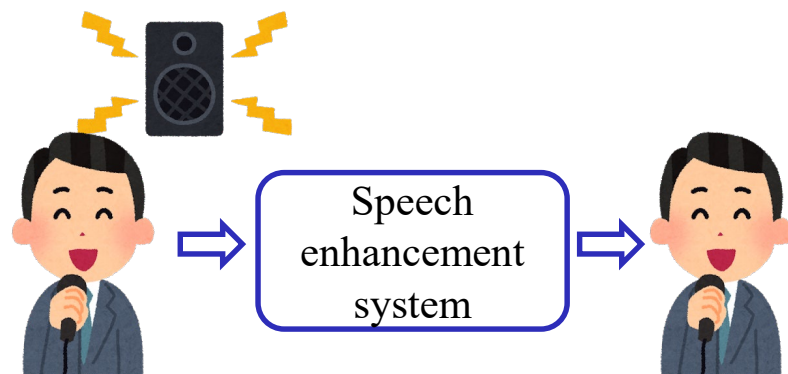
Speech and Audio Processing using Machine Learning

Professor Tetsuo Kosaka

Voice conversion



Speech enhancement



Convert to a voice that is easy to hear

Content:

Speech processing includes a wide range of technologies, such as speech recognition, speech synthesis, and voice conversion. Our laboratory is engaged in various research work on speech processing.

Machine learning is the basis of speech technology. Deep learning, which has recently become a hot topic, is also a type of machine learning. We are working on developing various speech technologies using computers with GPUs capable of high-speed computation.

Based on the results of industry-academia collaboration, we successfully developed an underwater transceiver for leisure divers. This device can enable direct conversation under water. Presently, the device is used not only for leisure, but also for water rescue.

Appealing point:

We are developing techniques for speech and audio processing using machine learning methods such as deep learning. Regarding industry-academia collaboration, we are currently working on product inspection by sound.

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