3.9 Speaker Verification

Keywords

Speaker recognition; speaker verification; security; forensics; tracking of criminal activities

Key contact researcher(s)

Dr. Petr Motlicek
pmotlic@idiap.ch
Tel.: +41 27 721 77 49

Technology Transfer Office

Dr. Florent Monay
Dr. Hugues Salamin
tto@idiap.ch
Tel.: +41 27 721 77 72

Innovative aspects

– Combining state-of-the-art speech and speaker recognition technologies
– Exploiting the content of the spoken message to enhance verification capabilities
– Simulation of a large variety of acoustic environments for improved robustness
– Multiple enrollment solutions offering enhanced scoring capabilities

Commercial application examples

– Verification/authentication of caller against large database of speaker models
– Speaker verification of multi-styled and noisy speech
– Security: ID verification, forensics, tracking of criminal activities
– Gatekeeper for accessing secured systems (“voice-as-password” applications exploiting users’ knowledge)

More information


Software & IPR status

The above mentioned approaches to speaker verification are developed for the open-source Kaldi toolkit. The acoustic simulator is available as an open-source package from publicly available resources.