NUS National University of Singapore | Department of Electrical & Computer Engineering Faculty of Engineering

HLT Human Language Technology Lab @ NUS | Human Language Technology Laboratory
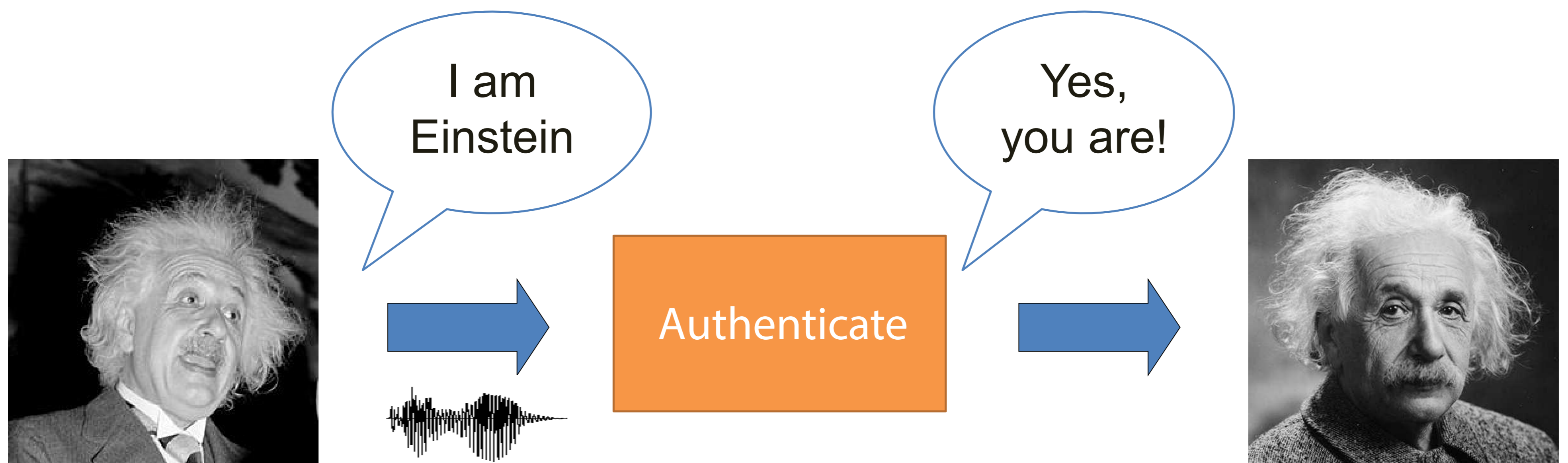
RECOGNIZE SPEAKERS FROM THEIR VOICE

Your voice is your password! Control different services simply with your voice.

Technologies

- ❖ Text-independent and text-dependent speaker verification
- ❖ Anti-spoofing and countermeasures
- ❖ Hackers role to steal identity
- ❖ Speaker diarization and clustering
- ❖ Robustness under variable and degraded conditions
- ❖ Speaker confidence estimation
- ❖ Language identification

Speaker Profiling

- ❖ Gaussian mixture model (GMM)-Hidden Markov model (HMM)
- ❖ i-vectors
- ❖ x-vectors

Applications

- ❖ Smart-home control
- ❖ Information security and access
- ❖ Forensic investigations
- ❖ Ethical hacking
- ❖ Multi-modal authentication

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