



Speaker Verification
and Recognition Systems



Biometry is the safest and the most convenient tool of authorization. Biometric features cannot be lend, stolen or forgotten and their falsification is practically impossible. Let your voice be your password!

VoicePass

VoicePass is an innovative biometric identity verification. It merges the NLP-capable dialogue module with biometric identity verification in text-dependent mode. A 'Voice-Pass' – fixed (but configurable) utterance used for remote verification ensures speaker's true identity over telephone line, mobile application or WEB access.

Get rid of logins and passwords!

Surikate

Speaker recognition and diarization solution. It allows online speaker recognition for IVRs and multi-speaker conference applications and off-line diarization of the multi-speaker recording data-sets.

- On-line and off-line automatic diarization of multispeaker recordings
- On-line speaker identity monitoring

Key advantages of voice biometrics

- Quick and comfortable logging into the system - without PIN code, password, token etc.
- Shorter time and less costs of phone helpline agents' customer service
- Unified verification process for various communication channels
- Monitoring of unauthorized access attempts (alarm activation, automatic blocking of unauthorized user)

Our products are the results of the fascination of their creators with technologies of the future. We offer a completely new quality of IT systems on the market. Our solutions are efficient, economical and are about to become an integral part of modern customer service centres and smart buildings.

The most important functionalities of VoicePass & Surikate

Biometric voice identity verification with IVR system allows shortening of user identification time more than 4 times and rising the authorization security level at the same time. Biometric identification lasts for only a few seconds - much less than entering PIN or token code.

VoicePass Speaker Verification System:

- text-dependent identity verification
- fraud-proof with playback detection
- Webservice SOAP API for integration with any IVR, dialogue or WEB platform
- Web-based GUI for operators and administrator
- quick user enrollment session (3x VoicePass phrase repetition)
- user enrollment data coherence validation
- language independent solution (for each single system deployment)
- As-You-Go system adaptation
- integration and enforcement of dialogue-based identity verification methods (PINs, passwords)
- compliance with modern industry security and system-architecture standards including SOAP Webservice, MRCPv2, VXML 2.0, SSL/TLS
- GPGPU-based implementation of the core DSP biometric engine

Surikate Speaker Recognition System:

- multi-speaker recognition scenario (N:M)
- training data validation
- speaker model training from both wave files and microphone or streaming inputs
- language- and text-independent solution
- Windows GUI
- .NET API for integration with other software
- automatic speaker-labelling of a set of wave files
- on-line mode for recognition of microphone input with Windows GUI

Techmo
speech & natural
language processing



UNICO
software



BR
Narodowe Centrum
Badań i Rozwoju

dsp.agh.edu.pl
unicosoftware.com

VoicePass & Surikate are based on state-of-art speech processing technologies developed at AGH University of Science and Technology by DSP team in cooperation with IT companies: Unico Software and Techmo. Very important new solution is a usage of the GP-GPU computing methods in core DSP engines in such biometric product. It reduces both installation and maintenance costs due to a lower hardware and housing demands. It also provides an easy deployment scalability.

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