PHONEXIA

Phonexia Voice Inspector

Powered by Phonexia Deep Embeddings™

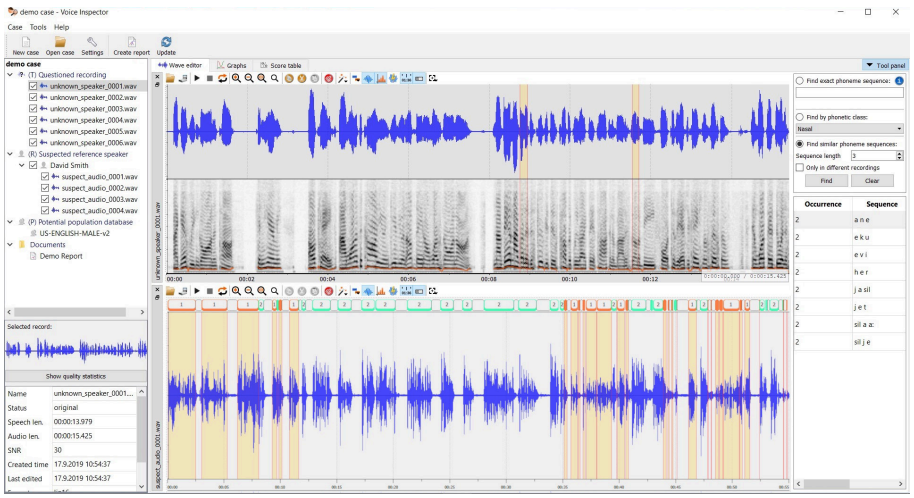
> **With suitable speech materials, speaker comparisons are carried out by means of modern and validated voice biometric methods. For that purpose, stimmenvergleich.com uses cutting-edge language-, text- and channel-independent Phonexia speaker identification software.**

Dr. Stefan Gfroerer
Former head of the
Speaker Identification
and Audio Analysis Department
at Bundeskriminalamt

Phonexia Voice Inspector (VIN) provides police forces and forensic experts with a highly accurate speaker identification tool to support criminal investigations. It leverages the AI-powered Phonexia Deep Embeddings™ voice biometrics engine which is, based on an independent forensic study (forensic_eval_01) performed by Bundeskriminalamt, the most accurate automatic speaker identification technology available on the market.

Selected Features

- **1:1 speaker comparison** in accordance with ENFSI guidelines
- **1:N speaker identification** for more complex cases
- **A diarization tool** to make working with audio recordings containing multiple speakers easier
- **A phoneme recognizer** for the searching and visualization of the same phoneme sequences across audio files
- **An evaluation tool** for the measurement of accuracy in a user's data sets
- **A waveform editor** with tools such as a spectrum panel, voice activity detection and more



Turning Voice into Knowledge

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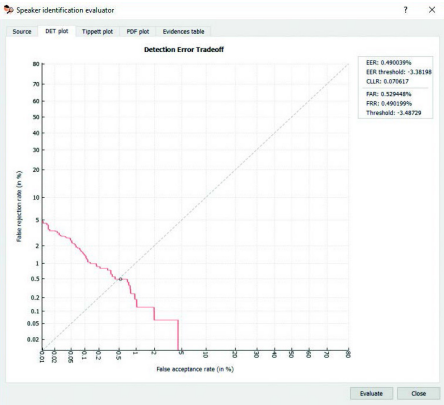
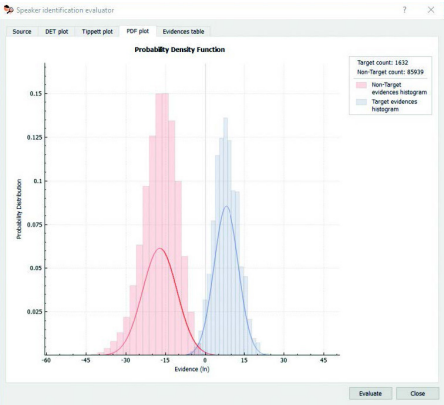
Automatic Forensic Voice Comparison

The *forensic_eval_01* study's details
https://phonexia.com/en/forensic-report



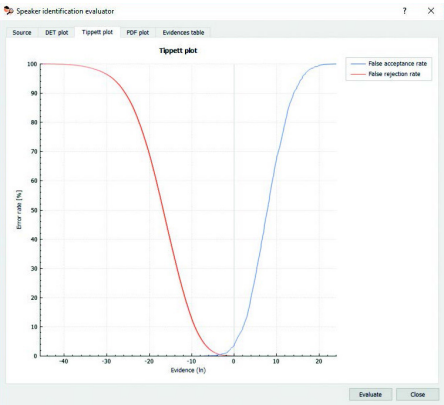
Technology

- **Deep Embeddings™** – uses deep neural networks to generate highly representative voiceprints
- **Phonexia Voice Inspector** is independent of language, accent, text and channel
- Applies state-of-the-art **channel compensation techniques**, verified by NIST evaluation
- **Compatible** with the widest range of audio sources possible: GSM/CDMA, 3G, VoIP, landlines, etc.



Input

- **Input format for processing:** WAV or RAW (8 or 16-bit linear coding), A-law or Mu-law, PCM, 8 kHz+ sampling
- **Minimum speech signal for enrollment:** Recommended 20+ seconds
- **Minimum speech signal for identification:** Recommended 7+ seconds



Output

- **Scoring** to a likelihood ratio (LR), log-likelihood ratio (LLR) and verbal presentation of results
- **Graphic presentation** of the likelihood ratio (LR)
- **Detailed report output** (expert opinion template automatically generated) for presentation of results (to a court or an investigation team)

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