



BS³: Biometric Speaker Spotting System

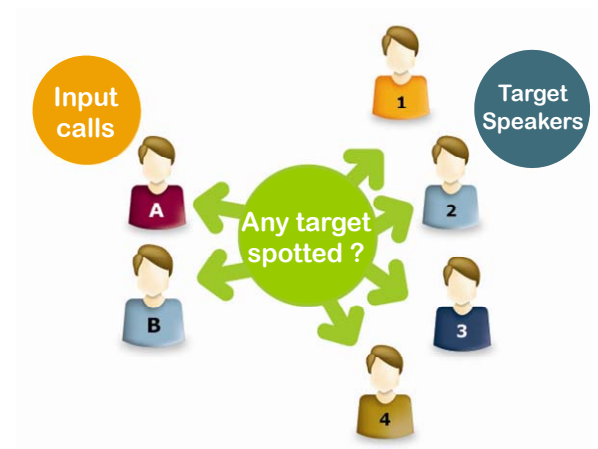
Pioneering Speaker Identification Software used to Spot Target Speakers within Massive Interception and Intelligence Systems

AGNITIO's Biometric Speaker Spotting System (BS³) is provided as an engine that can be integrated into small to large massive interception and intelligence systems.

BS³ enables the following capabilities:

- Training of selected target speaker voices
- Spotting of selected target speakers among given input audios
- Multi-speaker Separation
- Gender Identification
- Language Identification

Spotted audios are returned with associated target matching scores, which are compared with pre-defined threshold levels for each target that trigger alarms in related massive interception and intelligence systems.



BS³ is comprehensive, simple and easy to integrate.

Spotting results in likelihood ratios (LRs) that are easy to evaluate and compare against given thresholds to make a decision.

BS³ includes the ability to detect your target within a multi-speaker conversation.

BS³ is able to identify the speaker's gender and the language spoken.

BS³ can remove the noise from the intercepted calls or the audio recorded files.

Audio	Model	LR	
Chinese2.wav_Type_A	SpanishVoice	-4.23898884530447	
Chinese1.wav_Type_A	SpanishVoice	4.4114676534591934	Possible candidate
Chinese3.wav_Type_A	SpanishVoice	5.2437041753529625	Possible candidate

BS³ Speaker Identification Results: Green scores are possible candidates.

BS³ Integration and Performance

BS³ can be integrated into any massive interception or intelligence system to search for target speakers within its source audio database containing intercepted calls or previously recorded audio files.

BS³ is a scalable solution with the capability of processing millions of hours of audio per day.

BS³ can easily be integrated into data analysis applications allowing integrators to provide a single console for management of all intelligence required by investigators.

Chinese2.wav_Type_A	Mandarin
Chinese1.wav_Type_A	Mandarin
Chinese3.wav_Type_A	Mandarin
Chinese4.wav_Type_A	Mandarin
beatriz.wav_Type_A	Spanish
Beatriz_long_mic.wav_Type_A	Spanish
YHI2C_01139_a.wav_Type_A	Arabic
YHI2C_01112_a.wav_Type_A	Arabic

BS³ Language Identification

AGNITIO's new generation of BS³ technology includes:

- Multi-speaker Separation
- Gender Identification
- Language Identification

beatriz.wav_Type_A	Female
YHI2C_01139_a.wav_Type_A	Male
Beatriz_long_mic.wav_Type_A	Female

BS³ Gender Identification

AGNITIO - Leading Voice Biometric Technology for Homeland Security

BS³ uses AGNITIO's latest 3G state-of-the-art voice biometric technology core based on technology first presented at the most recent NIST Evaluation.

Recent independent tests conducted by International Biometric Group (IBG) demonstrated AGNITIO's superior voice biometric technology capabilities.

Tests are regularly performed in many languages on different channels (professional microphones, landline telephones, mobile phones or Voice over IP (VoIP)) with comparable results.

AGNITIO's voice biometric consultants are available to provide all necessary support to our clients worldwide in order to ensure the best results.

Our consulting services are designed to help organizations extract immediate value from BS³ technology, focusing on areas of data analysis and calibration.



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