



MELANIE Speaker Identification



# MELANIE – Speaker Identification, GMM

#### Functionality

Speaker identification determines the probability of a set of speakers in speech signals.

The algorithm is especially useful when searching for a certain speaker in mass audio data.



#### **Training of Models**

Goal	Training is performed in order to optimise the models on the respective speaker.
Training Data	The training data must be labeled according to the prevailing speaker. If possible, the speaker data should be obtained from different channels and languages. A minimum of two minutes speech is required for each speaker.

## **Technical Data**

**OperatingSystem** Available on Windows XP and Linux

Processing Time	<ul> <li>On a P4; 3GHz, 1GB RAM computer</li> </ul>
	• 1/8 of real time; i.e. a signal of 8 minutes length is
	processed in one minute

**Recognition Rate** The recognition rate depends on the number of speakers, on the similarities of the speakers among each other and on the speech quality.

### Products

Mel-Pr-GMM-site	Production environment for MELANIE GMM (site license)
Mel-Pr-GMM-PC	Production environment for MELANIE GMM (PC license)
Mel-Tr-GMM	Training environment for MELANIE GMM









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