



MELANIE
Topic Spotting
TOP

MELANIE - Topic Spotting, TOP

Production Module for fast and reliable spotting of the topic/category prevailing in speech signals. Training module for topic spotting parameters.

Functionality

Speech signals can be analysed according to the topic/category prevailing in the speech. For each speech signal, an overall score and probability is estimated. In addition, these values can also be estimated for any time interval.



Training of Models

Goal

Training is performed in order to optimise the models on the topic and channel of the application.

Training Data

The training data must be labeled according to the topic in the speech signal. The data must be representative and as similar as possible to the data of the application. A minimum of one hour of data is required for each language.

Technical Data

OperatingSystem

Available on Windows XP and Linux

Processing Time

- On a P4; 3GHz, 1GB RAM computer
- Classifying 3 different classes/ topics
- 1/14 of real time; i.e. a signal of 14 minutes length is processed in one minute

Recognition Rate

The recognition rate depends on the number of topics, on the similarities and the overlap among topics, and on the speech quality. For example, when distinguishing 2 topics in radio quality, an accuracy of 87 % can be obtained.

Products

Mel-Pr-TOP-site

Production environment for MELANIE TOP (site license)

Mel-Pr-TOP-PC

Production environment for MELANIE TOP (PC license)

Mel-Tr-TOP

Training environment for MELANIE TOP



If you would like further Information about ELAMAN,
or would like to discuss a specific requirement or project, please contact us at:

Elaman GmbH
German Security Solutions
Seitzstr. 23
80538 Munich
Germany

Tel: +49-89-24 20 91 80
Fax: +49-89-24 20 91 81
info@elaman.de
www.elaman.de