

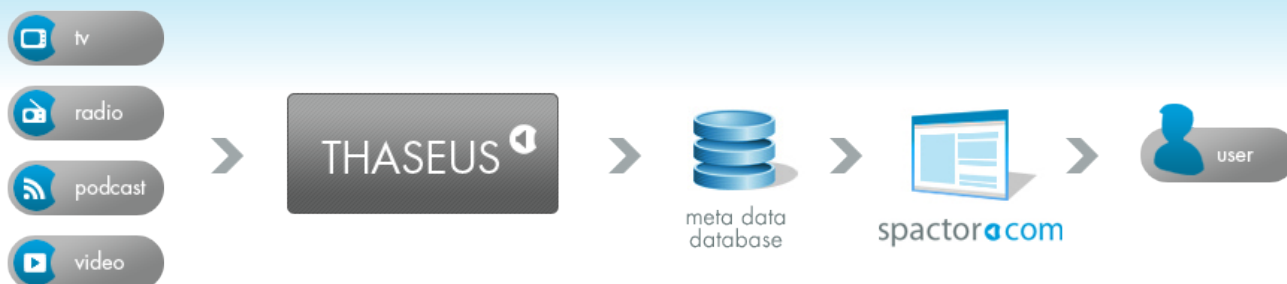
THASEUS

THASEUS is an advanced analyzing system for audio and video content. It combines artificial intelligence, speech processing, and natural linguistics into one powerful framework. Running on state-of-the-art speech-to-text algorithms, THASEUS offers an automatic generation of meta data in real time and stunning quality.

THASEUS is the core technology for spactor.com, a free rich-media search engine. THASEUS is being developed and constantly improved by mediaclicking, a media monitoring company founded 2006 in Bremen (Germany).

KEY FACTS

- Real-time speech-to-text decoding
- Language-independent engine: German and English is currently supported, French and Spanish will be added soon
- >150.000 trained words
- Speaker-, gender-, and dialect-independent models
- High-speed topic categorization and automatic summarization
- Output: XML-based meta data



AUDIO PREPROCESSING

- Noise cancellation
- Music-, silence-, speech segmentation
- Multiple processes of normalization

ACOUSTIC MODELS

- Based on MFC coefficients, energy coefficient, and delta & delta-deltas
- Cepstral mean subtraction
- Patterns built on various Gaussian mixtures

LANGUAGE MODEL

- Word pool including >150.000 trained terms
- word-based 3-gram models employing Good-Turing discounting
- Self-learning dictionary

DECODING

- Optimized combination of language model and acoustic model for maximum recognition
- Forward-backward pass
- Real-time processing
- XML-based output

NATURAL LANGUAGE PROCESSING

- Topic classification
- Entity extraction (persons, brands, locations)
- Summary generation

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