

**da/sec** BIOMETRICS AND INTERNET-SECURITY RESEARCH GROUP



## - Bachelor Project and Thesis / Master Thesis -Speaker Clustering using i-Vectors

CASED In the Center for Advanced Security Research Darmstadt (CASED) Technische Universität Darmstadt, Fraunhofer Institute for Secure Information Technology and Hochschule Darmstadt are collaborating in the fast developing field of IT-Security: progressive security solutions are researched, developed and implemented into industrial economy. Read more on www.cased.de.

Motivation & Goal Identity vectors (i-Vectors) have become state-of-the-art acoustic features in speaker recognition describing the characteristic speaker offset from a universal acoustic cluster. In order to robustly train pattern recognition classifiers, it is of uttermost importance to organize the development data well. While supervised clustering uses meta information, unsupervised clustering appears more challenging. Further, investigations need to take domain shifts into account, which occur due to changes in e.g., recording devices, recording conditions or the speech signal.



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