Accepted Manuscript

Semi-Supervised Speech Activity Detection with an Application to Automatic Speaker Verification

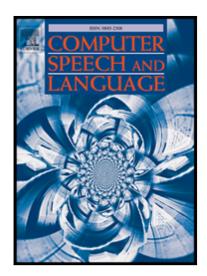
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PII: S0885-2308(16)30328-X DOI: 10.1016/j.csl.2017.07.005

Reference: YCSLA 875

To appear in: Computer Speech & Language

Received date: 10 October 2016 Revised date: 23 May 2017 Accepted date: 7 July 2017



Please cite this article as: Alexey Sholokhov, Md Sahidullah, Tomi Kinnunen, Semi-Supervised Speech Activity Detection with an Application to Automatic Speaker Verification, *Computer Speech & Language* (2017), doi: 10.1016/j.csl.2017.07.005

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Highlights

- We propose a new speech activity detector (SAD) based on semi-supervised learning of Gaussian mixture model (GMM).
- The proposed SAD requires lower amount of data labelled data for initialization as compared to GMM-based approach.
- We have shown improved detection of speech and non-speech frames on NIST OpenSAD dataset.
- The proposed SAD gives promising results compared to other SADs in robust speaker verification task.

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