Speaker Verification Using Adapted Gaussian Mixture Models

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ABSTRACT

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1 INTRODUCTION

A GMM is a generic probabilistic model for multivariate densities capacle of representing arbitrary densities, making it well suited for unconstrained text-independent applications. The use of GMMs for this type of speaker identification was first described in [1]. Since then, this approach has gained popularity and became the state of the art in text-independent speaker recognition applications, a fact evidenced by numerous papers published in majors conferences, such as Conference on Acoustics Speech and Signal Processing (ICASSP), the European Conference on Speech Communication and Technology (Eurospeech), and the International Conference on Spoken Language Processing (ICSLP), as well as articles in ESCA Transactions on Speech Communications and IEEE Transactions on Speech and Audio Processing.

REFERENCES

[1] Rose, R. C. and Reynolds, D. A., Text-independent speaker identification using automatic acoustic segmentation. In *Proceedings of the International Conference on Acoustics, Speech, and Signal Processing*, 1990, pp. 293–296.