

Accepted Manuscript

Assessing the segmentation performance of pairwise and triplet Markov models

Ivan Gorynin, Hugo Gangloff, Emmanuel Monfrini, Wojciech Pieczynski

PII: S0165-1684(17)30420-6
DOI: [10.1016/j.sigpro.2017.12.006](https://doi.org/10.1016/j.sigpro.2017.12.006)
Reference: SIGPRO 6675



To appear in: *Signal Processing*

Received date: 7 July 2017
Revised date: 4 October 2017
Accepted date: 4 December 2017

Please cite this article as: Ivan Gorynin, Hugo Gangloff, Emmanuel Monfrini, Wojciech Pieczynski, Assessing the segmentation performance of pairwise and triplet Markov models, *Signal Processing* (2017), doi: [10.1016/j.sigpro.2017.12.006](https://doi.org/10.1016/j.sigpro.2017.12.006)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Two extensions of hidden Markov models (HMMs), namely pairwise Markov models (PMMs) and triplet Markov models (TMMs), are reminded.
- The impact of approximating PMMs and TMMs by the classic hidden Markov models (HMMs) is analyzed quantitatively in the case of Gaussian and gamma observation distributions.
- Experiments demonstrated that a PMM or TMM cannot be approximated by a classic HMM without a loss of accuracy.

Download English Version:

<https://daneshyari.com/en/article/6957875>

Download Persian Version:

<https://daneshyari.com/article/6957875>

[Daneshyari.com](https://daneshyari.com)