

MIREX 2014 AUDIO DOWNBEAT TRACKING EVALUATION: FK1

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ABSTRACT

In this submission we present a Hidden Markov Model (HMM) based beat tracking system that simultaneously extracts downbeats, beat times, tempo, meter and rhythmic patterns, as proposed in [1]. It is trained on a dataset of Ballroom music data.

1. MODEL DESCRIPTION

The model is identical to the one published in [1]. The parameters are

- $M = 1280$
- $R = 8$
- $p_n = 0.01$

2. DATASETS

2.1 Training data

Our training set consists of 698 audio excerpts from the Ballroom music dataset [1].

3. REFERENCES

- [1] F. Krebs, S. Böck, and G. Widmer. Rhythmic pattern modeling for beat and downbeat tracking in musical audio. In *Proc. of the 14th International Conference on Music Information Retrieval (ISMIR)*, Curitiba, 2013.

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