

MIREX 2016 submission BK4

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ABSTRACT

This extended abstract describes the downbeat tracking submission: *DBNDownBeatTracker*.

1. DESCRIPTION

For technical details of the algorithm, please refer to [2].

2. RESULTS

The algorithm achieves the highest *F-measure* on all datasets, except Beatles and GTZAN, where it achieves the second highest score. These are the (second) highest MIREX scores reported ever.

3. SOURCE CODE

Code of a reference implementation of this algorithm is included in the *madmom* library [1]. It can be found online on GitHub: <http://github.com/CPJKU/madmom>.

4. REFERENCES

- [1] Sebastian Böck, Filip Korzeniowski, Jan Schlüter, Florian Krebs, and Gerhard Widmer. *madmom: a new Python Audio and Music Signal Processing Library*. arXiv:1605.07008, 2016.
- [2] Sebastian Böck, Florian Krebs, and Gerhard Widmer. Joint beat and downbeat tracking with recurrent neural networks. In *Proceedings of the 17th International Society for Music Information Retrieval Conference (ISMIR)*, New York, NY, USA, 8 2016.