MIREX 2016 submission SB1

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ABSTRACT

This extended abstract describes the tempo estimation submission: *TempoDetector.2016*.

1. DESCRIPTION

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

2. RESULTS

The algorithm achieves the highest *P-score*, *at least one tempo correct* and *both tempi correct* values. The former two are the 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. Accurate tempo estimation based on recurrent neural networks and resonating comb filters. In *Proceedings of the 16th International Society for Music Information Retrieval Conference (ISMIR 2015)*, pages 625–631, Malaga, Spain, 10 2015.