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ABSTRACT

This extended abstract describes the beat tracking submission: *DBNBeatTracker*.2016. Instead of the originally proposed state space and transition model for the DBN, it uses those described in [3].

1. DESCRIPTION

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

2. 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.

3. 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. A multi-model approach to beat tracking considering heterogeneous music styles. In *Proceedings of the 15th International Society for Music Information Retrieval Conference (ISMIR 2014)*, pages 603–608, Taipei, Taiwan, 10 2014.
- [3] Florian Krebs, Sebastian Böck, and Gerhard Widmer. An Efficient State Space Model for Joint Tempo and Meter Tracking. In Proceedings of the 16th International Society for Music Information Retrieval Conference (ISMIR 2015), pages 72–78, Malaga, Spain, 10 2015.