

Hidden Markov Music

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- David Cope. *Experiments in Musical Intelligence*. Vol. 12. Computer Music and Digital Audio Series. A-R Editions, 1996
A classic work in AI music composition. While very different from my approach to the problem, it will no doubt be insightful.
- Anna Jordanous and Alan Smaill. “Investigating the Role of Score Following in Automatic Musical Accompaniment”. In: *Journal of New Music Research* 38.2 (2009), pp. 197–209
A work which makes use of HMMs to implement an AI musical accompanist. This is in many ways similar to my project, and will provide many insights.
- Kyogu Lee and Malcolm Slaney. “Automatic Chord Recognition from Audio Using a Supervised HMM Trained with Audio-from-symbolic Data”. In: *Proceedings of the 1st ACM Workshop on Audio and Music Computing Multimedia*. AMCMM '06. ACM, 2006, pp. 11–20
An HMM approach to identifying chords in audio. Will be useful in identifying chords for implementing an HMM based on higher-level musical structures.
- Peiqian Li. “Automated Identification of Chord Progression in Classical Music”. Wittenberg University, 2014
An HMM approach to identifying chord progressions in audio. This is a layer of abstraction higher than simply identifying chords, and I suspect will produce much better results than simply modeling note or chord transition probabilities.

- Leonard E. Baum and Ted Petrie. “Statistical Inference for Probabilistic Functions of Finite State Markov Chains”. In: *The Annals of Mathematical Statistics* 37.6 (1966), pp. 1554–1563

A historic paper by one of the creators of the Baum–Welsh algorithm. While at an unnecessarily high mathematical level for my purposes, it will be important to reference when making use of his algorithm.

- Mark Stamp. *A Revealing Introduction to Hidden Markov Models*. 2012. URL: <http://www.cs.sjsu.edu/~stamp/RUA/HMM.pdf> (visited on 02/24/2015)

A good overview of Hidden Markov Models, explaining the underlying theory and the implementation and uses of the forward–backward algorithm, and the Baum–Walsh algorithm.

- Oliver Ibe. *Markov Processes for Stochastic Modeling*. 2nd ed. Elsevier, 2013

A text which serves as a good general overview of Markov processes.