

# Gesture Alignment Using Hidden Markov Models

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## Abstract

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## 1 Introduction

Kinect, data, problem setup, main goal (align gestures, why this is necessary).

## 2 Related Work

Dynamic Time Warping [Listgarten *et al.*, 2005]  
Learning Control [Coates *et al.*, 2008]

## 3 Graphical Model

## 4 Algorithm

## 5 Results

## 6 Discussion and Future Work

## 7 Conclusion

## References

- [Coates *et al.*, 2008] Adam Coates, Pieter Abbeel, and Andrew Y. Ng. Learning for control from multiple demonstrations. In *Proceedings of the 25th international conference on Machine learning*, ICML '08, pages 144–151, New York, NY, USA, 2008. ACM.
- [Listgarten *et al.*, 2005] Jennifer Listgarten, Radford M. Neal, Sam T. Roweis, and Andrew Emili. Multiple alignment of continuous time series. In *Advances in Neural Information Processing Systems*, pages 817–824. MIT Press, 2005.