A task dynamics model of speech articulation with state feedback control

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Abstract

We present a task dynamics model of speech articulation that explicitly incorporates a framework for control based on instantaneous and delayed auditory state feedback. We do this by combining two existing well-known theories in the speech production literature – the Task Dynamics model of speech production [**?**] and the State Feedback Control model of speech motor control [**?**]. We demonstrate the effectiveness of the model by simulating a simple perturbation study.

Index Terms: task dynamics, articulatory phonology, state feedback control

1. Introduction

2. Acknowledgements

3. References

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