

**Variable Order Sequence Memory through
Hierarchical Temporal Memory**
HONORS RESEARCH PAPER

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COMPUTER SCIENCE

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1 Time Series

Motivate the problem, time series are everywhere

Talk about ARIMA models

2 Hierarchical Temporal Memory

2.1 The Neocortex

Overview of the neocortex

Pyramidal Neurons

2.2 Hierarchical Temporal Memory

Sequence memory - SDRs and transitions

Variable order sequence memory - cells per minicolumn

3 Literature Review

Does anyone know if its able to do this?

It has been used in applications, look there

4 Experiment Design

5 Results

6 Further Work

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