

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

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Contents

1	Time Series	6
2	Hierarchical Temporal Memory	6
2.1	The Neocortex	6
2.2	Hierarchical Temporal Memory	6
3	Literature Review	6
4	Experiment Design	6
5	Results	6
6	Further Work	6

List of Figures

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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