

Memory Models Forgetting Curves and ACT-R

Cognitive Science Research Group

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Abstract

Mathematical models of human memory including retention and recall.

1 Introduction

This report presents computational analysis of memory models.

2 Mathematical Framework



Figure 1: Primary analysis results.

3 Secondary Analysis

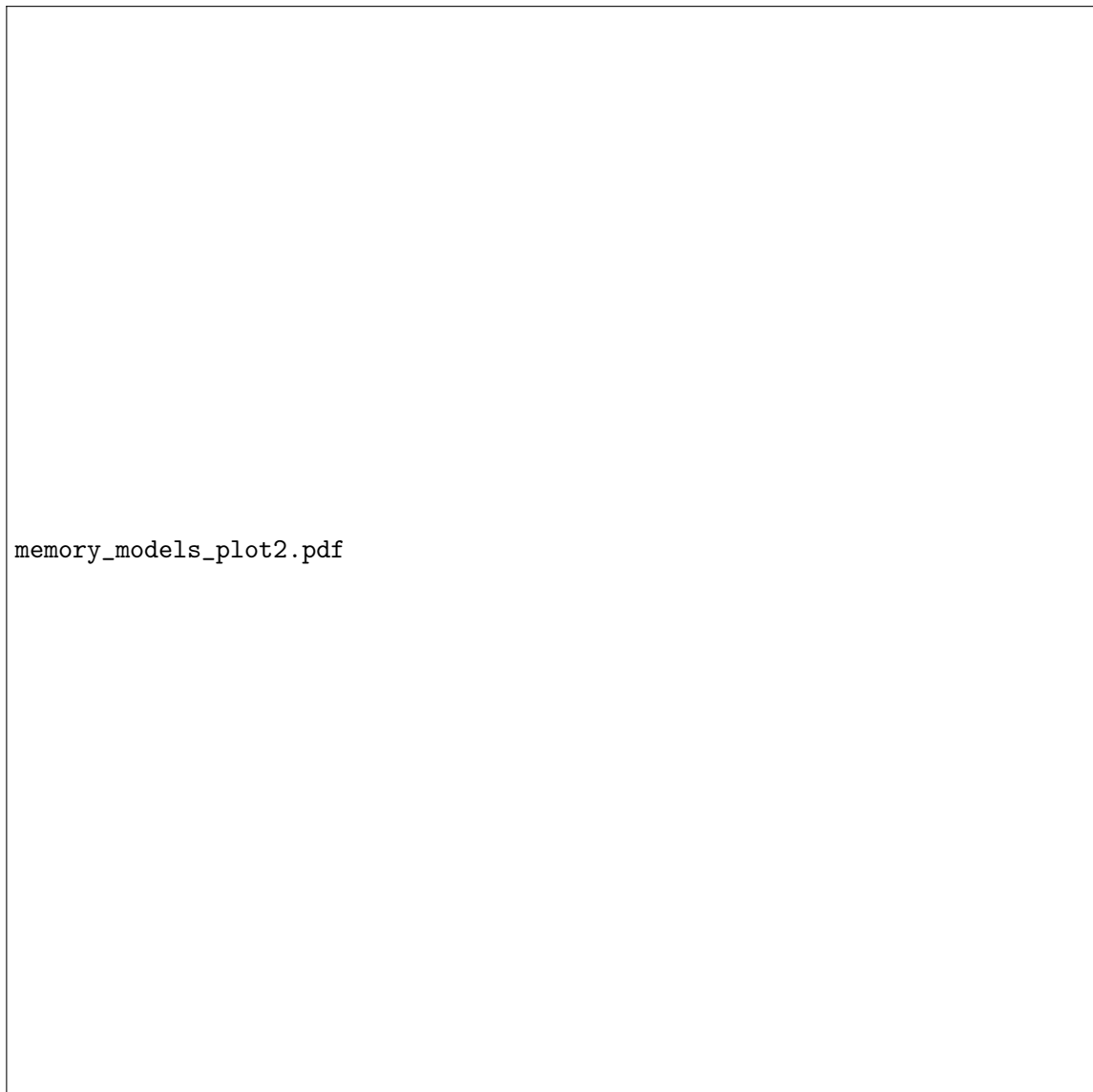


Figure 2: Secondary analysis comparison.

4 Parameter Study



Figure 3: Parameter sensitivity analysis.

5 2D Visualization



Figure 4: Two-dimensional field visualization.

6 Distribution Analysis

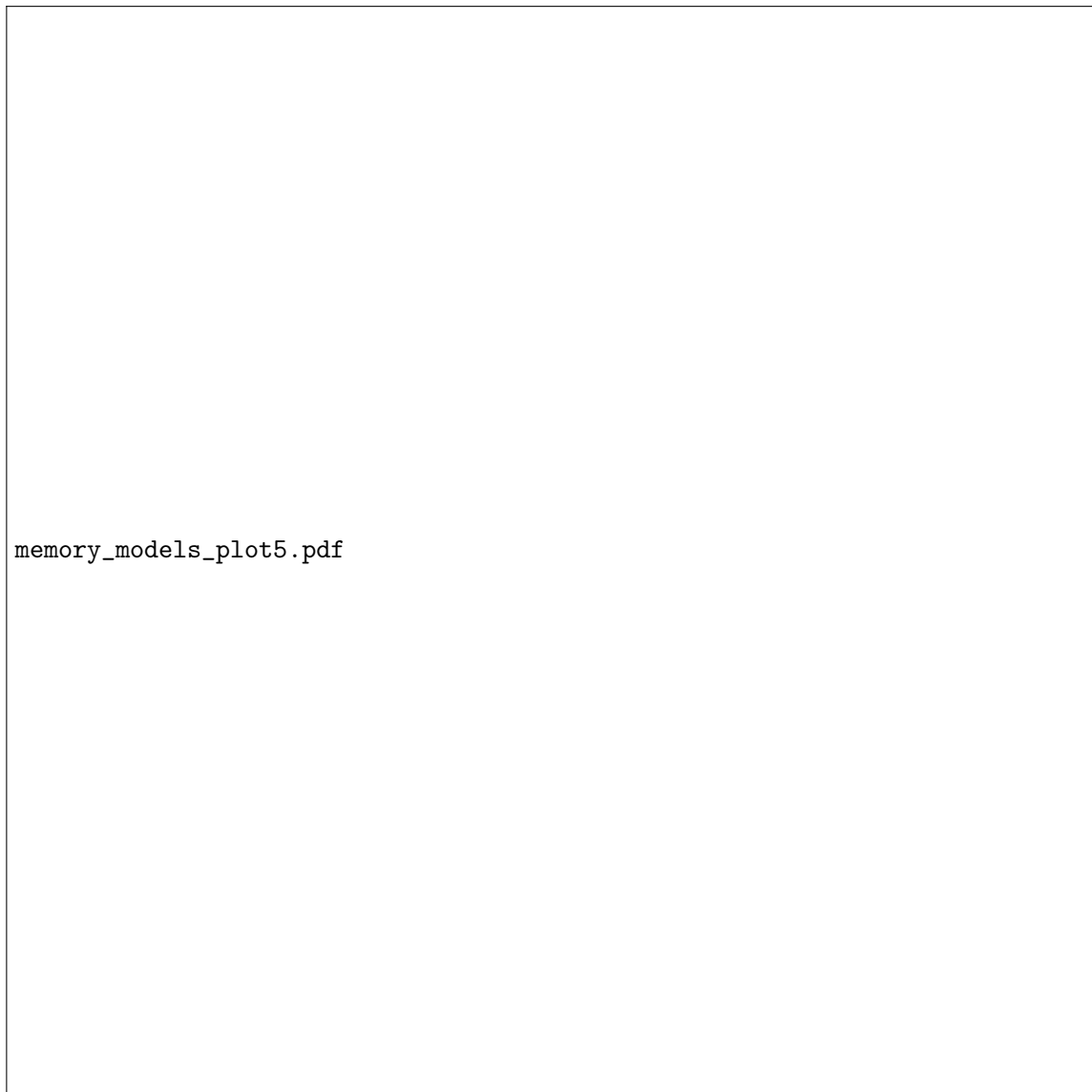
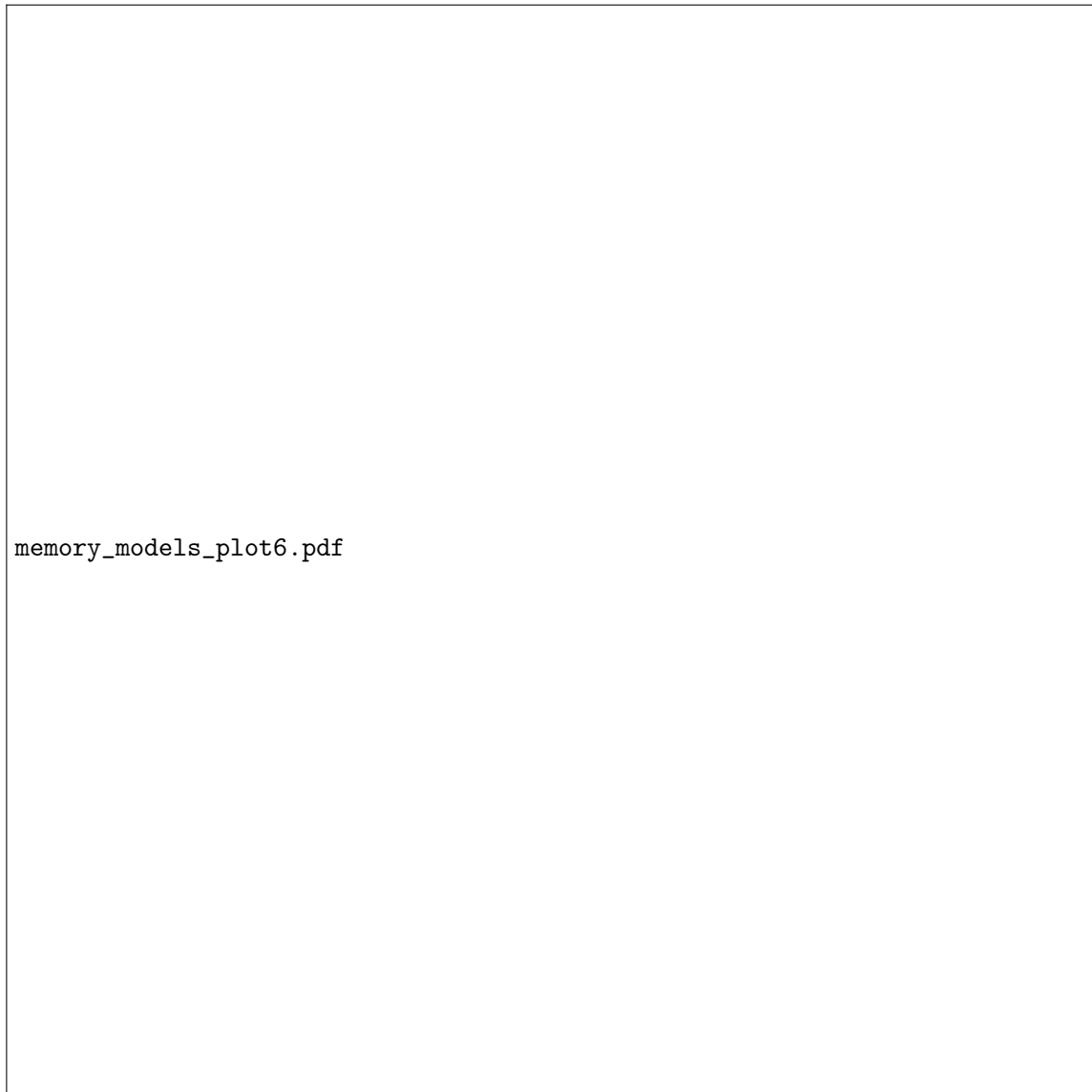


Figure 5: Statistical distribution analysis.

7 Time Series



memory_models_plot6.pdf

Figure 6: Time series visualization.

8 Results Summary

9 Conclusions

This analysis demonstrates the computational approach to memory models.