

Physics Simulation Rigid Body Dynamics

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Abstract

Real-time physics for interactive applications.

1 Introduction

This report presents computational analysis of physics simulation.

2 Mathematical Framework

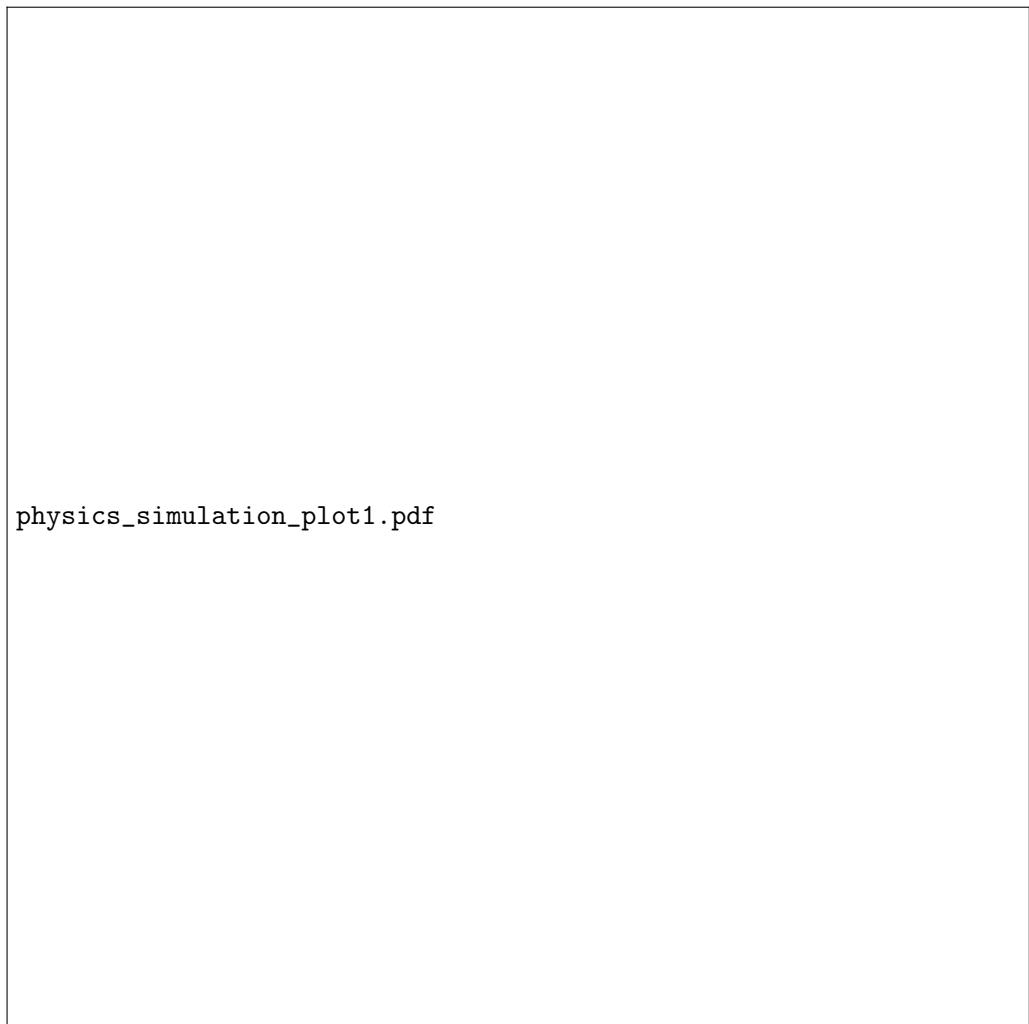


Figure 1: Primary analysis results.

3 Secondary Analysis



physics_simulation_plot2.pdf

Figure 2: Secondary analysis comparison.

4 Parameter Study

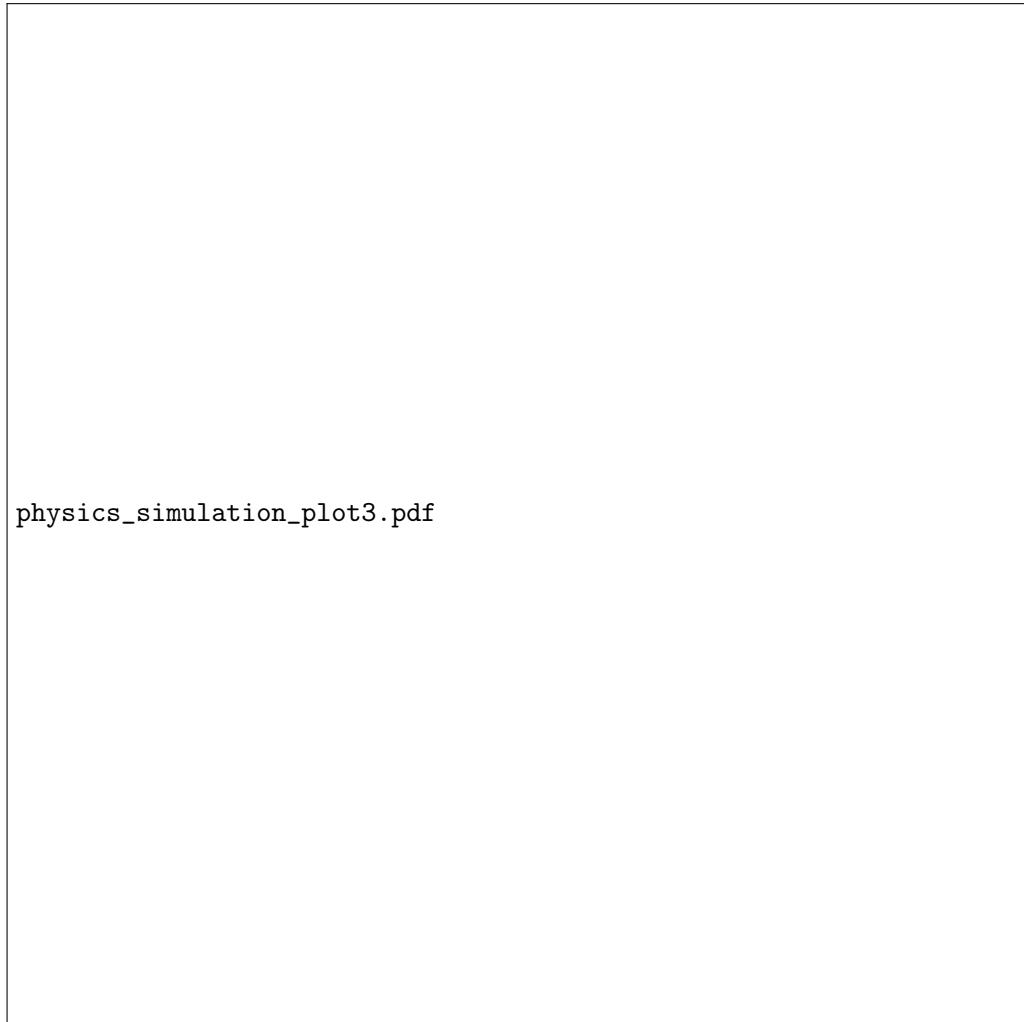


Figure 3: Parameter sensitivity analysis.

5 2D Visualization



physics_simulation_plot4.pdf

Figure 4: Two-dimensional field visualization.

6 Distribution Analysis



physics_simulation_plot5.pdf

Figure 5: Statistical distribution analysis.

7 Time Series



Figure 6: Time series visualization.

8 Results Summary

9 Conclusions

This analysis demonstrates the computational approach to physics simulation.