Notes on Loop-Erased Random Walk Simulations

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Abstract

These notes discuss simulation techniques for Loop-Erased Random Walks (LERW), including implementation details, algorithmic considerations, and analysis of results.

1 Introduction

2 Theoretical Background

2.1 Definition of LERW

3 Simulation Algorithm

Algorithm 1 Loop-Erased Random Walk Generation

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4 Implementation Details

5 Results and Analysis

6 Conclusions