

Accepted Manuscript

Stochastic first passage time accelerated with CUDA

Vincenzo Pierro, Luigi Troiano, Elena Mejuto, Giovanni Filatrella

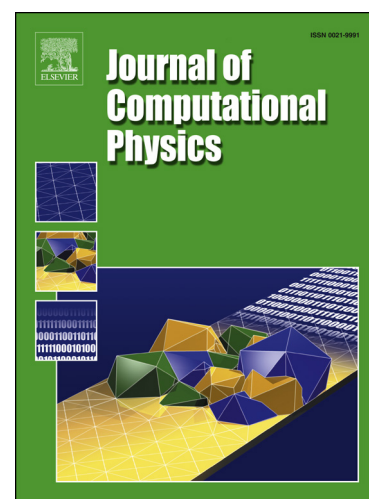
PII: S0021-9991(18)30049-4
DOI: <https://doi.org/10.1016/j.jcp.2018.01.039>
Reference: YJCPH 7823

To appear in: *Journal of Computational Physics*

Received date: 22 September 2017
Revised date: 17 January 2018
Accepted date: 22 January 2018

Please cite this article in press as: V. Pierro et al., Stochastic first passage time accelerated with CUDA, *J. Comput. Phys.* (2018), <https://doi.org/10.1016/j.jcp.2018.01.039>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Highlights

- Parallelization with GPU is proposed for fast computation of first passage time
- The parallelization is achieved with CUDA toolkit
- Simulations of Josephson devices in the time scale in which they operate
- A statistical model for parallel efficiency is proposed

Download English Version:

<https://daneshyari.com/en/article/6929006>

Download Persian Version:

<https://daneshyari.com/article/6929006>

[Daneshyari.com](https://daneshyari.com)