

Accepted Manuscript

Kinetic Monte Carlo simulations of two-dimensional pedestrian flow models

Yi Sun

PII: S0378-4371(18)30445-X
DOI: <https://doi.org/10.1016/j.physa.2018.04.017>
Reference: PHYSA 19449

To appear in: *Physica A*

Received date: 7 November 2017
Revised date: 16 February 2018

Please cite this article as: Y. Sun, Kinetic Monte Carlo simulations of two-dimensional pedestrian flow models, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.04.017>

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:

- We presented cellular automaton models for the two-way and four-way pedestrian flows.
- We applied an efficient kinetic Monte Carlo method to simulate pedestrian flows.
- We compared statistical properties of the simulation results with empirical data.
- Two-way and four-way pedestrian flows show difference in statistical properties.
- The system size and the interaction strength play significant roles in the models.

Download English Version:

<https://daneshyari.com/en/article/7375418>

Download Persian Version:

<https://daneshyari.com/article/7375418>

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