

Accepted Manuscript

Simulating bi-directional pedestrian flow in a cellular automaton model considering the body-turning behavior

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PII: S0378-4371(17)30433-8

DOI: <http://dx.doi.org/10.1016/j.physa.2017.04.117>

Reference: PHYSA 18219

To appear in: *Physica A*

Received date: 10 December 2016

Revised date: 21 March 2017

Please cite this article as: C.-J. Jin, R. Jiang, J.-L. Yin, L.-Y. Dong, D. Li, Simulating bi-directional pedestrian flow in a cellular automaton model considering the body-turning behavior, *Physica A* (2017), <http://dx.doi.org/10.1016/j.physa.2017.04.117>

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The body-turning behavior in bi-directional pedestrian flow experiments is studied.

This behavior is introduced into one cellular automaton model.

The occupied area of each pedestrian is set as a rectangle of 0.4m*0.2m.

The results from experiments and simulations are compared by quantitative analysis.

The effect of new rules is significant in two different simulation scenarios.

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