

Accepted Manuscript

The influence of panic on the efficiency of escape

Jia-Quan Shen, Xu-Wen Wang, Luo-Luo Jiang

PII: S0378-4371(17)30889-0

DOI: <http://dx.doi.org/10.1016/j.physa.2017.08.156>

Reference: PHYSYA 18602

To appear in: *Physica A*

Received date: 12 November 2016

Revised date: 28 May 2017

Please cite this article as: J. Shen, X. Wang, L. Jiang, The influence of panic on the efficiency of escape, *Physica A* (2017), <http://dx.doi.org/10.1016/j.physa.2017.08.156>

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

1. We introduced a model to study the collective behaviors in condition of fire with dense smoke.
2. Pedestrians in this have two strategies to escape: random-walking or walking along the wall.
3. Results show that moderate panic reduces the escape time.

Download English Version:

<https://daneshyari.com/en/article/7376446>

Download Persian Version:

<https://daneshyari.com/article/7376446>

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