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[1]赵宜宾,刘艳艳,张梅东,等.基于模糊元胞自动机的多出口人员疏散模型[J].自然灾害学报,2013,02:13-20.

ZHAO Yibin, LIU Yanyan, ZHANG Meidong, et al. A multi-exit occupant evacuation model based on fuzzy cellular automaton[J].,2013,02:13-20.

《自然灾害学报》[ISSN:/CN:23-1324/X] 期数: 2013年02期 页码: 13-20 栏目: 出版 日期: 2013-04-30

Title: A multi-exit occupant evacuation model based on fuzzy

cellular automaton

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关键词: 疏散模型;模糊元胞自动机;模拟仿真;多出口

evacuation model; fuzzy cellular automaton; analog Keywords:

simulation: multi-exit

TP391.9:X4 分类号:

DOI:

文献标识码: -

摘要: 考虑人员在疏散过程中获取的决策信息的模糊性,构建了以距出口距

> 离、目标方向密度和出口前人员密度为输入,以方向选择可能性为输出 的模糊元胞自动机多出口人员疏散模型,通过方向调节因子和决策因子 对选择可能性修正,使模型对疏散过程的描述更加合理。对教室中学生

疏散行为的模拟仿真表明,模型是有效和实用的。

Abstract: Considering the fuzziness of the information obtained in the

> occupant evacuation process, this paper establishes a multi-exit occupant evacuation model based on fuzzy cellular automaton, using the distance to exit, density of target direction and density at exit as input values, and the possibility of direction selection as the output values. Description of the evacuation process of the model is made more reasonable by the adjustment of selection possibilities through the correction of the direction factor and the decision factor. The analog simulation of the student's

> evacuation behavior in the classroom proves the effectiveness and

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