Effects of the body force on the evacuation dynamics

Abstract

Keywords:

Pedestrian Dynamics, Social Force Model, Body Force

PACS: 45.70.Vn, 89.65.Lm

1. Introduction

2. Background

2.1. The Social Force Model

3. Numerical simulations

4. Results

4.1. Bottleneck

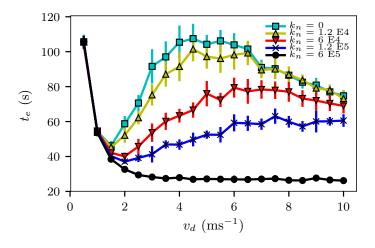


Figure 1:

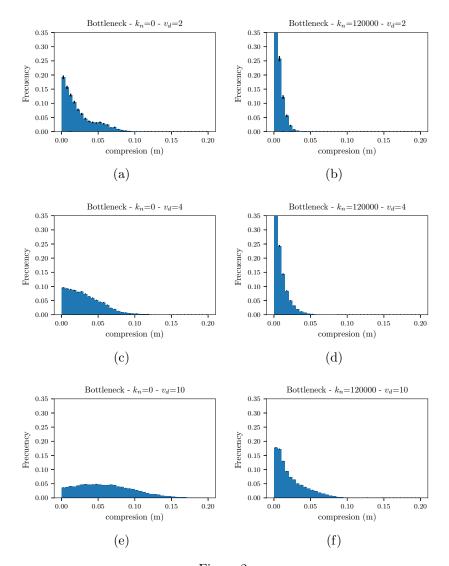


Figure 2:

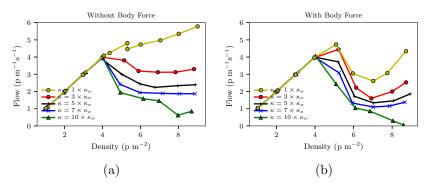


Figure 3:

- 4.2. Corridor
- 4.3. Reduced-in-units equation of motion

5. Conclusions

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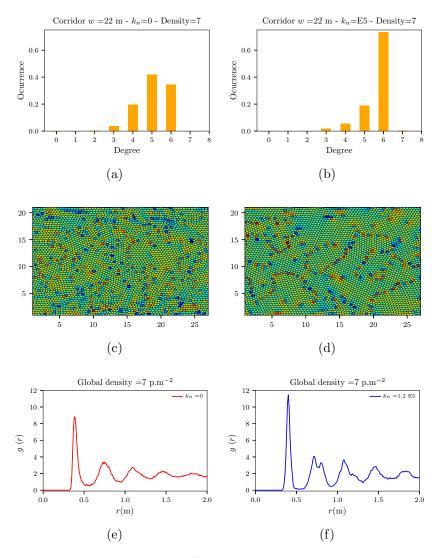


Figure 4:

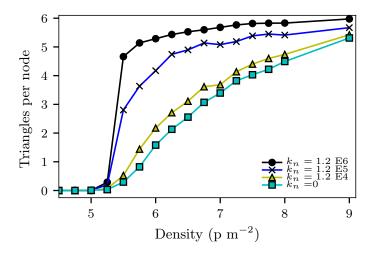


Figure 5:

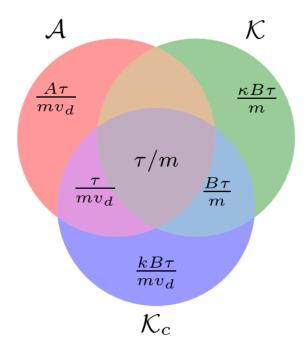


Figure 6: