Preview

December 16, 2014

Evacuation time, s

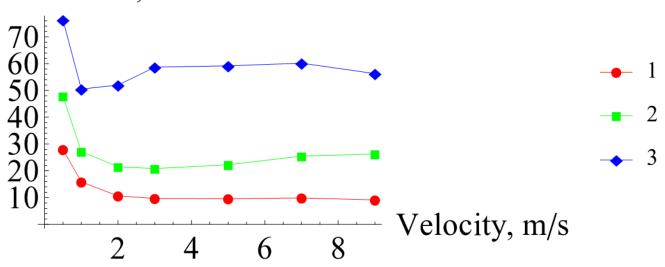
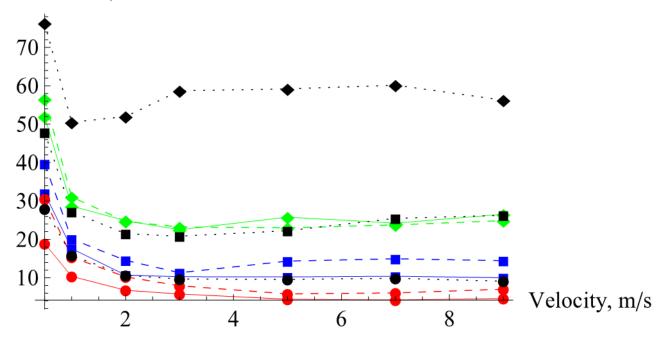


Figure 1: Evacuation time (all objects) versus desired velocity. Curves 1,2,3 correspond to objects quantity 25 and size 4 meters, 49 - 6, 100 - 9 correspondingly. Rooms were square. Door width - 1 meter. Each point - average per 10 runs.

Evacuation time, s



- \sim N=25,a=4,2 exits, closest \sim N=49,a=6,2 exits, closest
- \rightarrow N=100,a=9,2 exits, closest \rightarrow N=25,a=4,2 exits, random
- N=49,a=6,2 exits, random N=100,a=9,2 exits, random
- N=25, a=4, 1 exit N=49, a=6, 1 exit N=100, a=9, 1 exit

Figure 2: Evacuation time (all objects) versus desired velocity. Experiments with 2 exits and different schemes of choosing exit by agents, comparison with 1 exit. Each point - average per 10 runs.

