



Contribution ID: 1

Type: not specified

## Conflict solution in cellular evacuation model

*Friday, 25 June 2021 10:00 (20 minutes)*

Agent-based cellular models can be used to simulate the process of evacuation of people from a room. The actions and interactions of heterogeneous agents create collective motion and capture complex phenomena of pedestrian dynamics. This thesis presents a multi-agent cellular model based on floor-field model and is extended by a new strategy for solving conflicts when two or more agents attempt to enter the same cell. The agents and the model have various parameters that influence the conflict solution. A sensitivity analysis on these parameters is performed that reveals the individual contribution of variance in the results.

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**Session Classification:** Traffic and Agent Monitoring Systems