**CD++ Model Data Form**

Title: Room Evacuation with Cell-DEVS in Cadmium v2

Type: Cell-DEVS Model

Acronym/Short name: RoomEvac in DEVS

Purpose for which Developed: SYSC 5104 assignment 2 submission

Other Applications for which it is Suitable: Testing how quickly x number of people may evacuate a room of a given size.

Date Developed/Implemented: Apr. 2024

Domain: Analysis

Current Version 1.0

URL: https://github.com/HazelGriffith/CellDevs\_RoomEvac

Description: A model of the evacuation of people from an arbitrary 2D room. There is only one cell type that consists of people, obstacles like walls, and empty space. Each cell is assigned an increasing value the further they are from the exit. People use these values to move to cells with smaller values and reach the exit.

Links to Related Documents:

Short Title: Cellular Automaton Model for Evacuation Process with Obstacles

URL: <https://www.sciencedirect.com/science/article/abs/pii/S0378437107003676?fr=RR-2&ref=pdf_download&rr=879f998af9a20cc0>

Description: In this paper, researchers develop a cellular automata model of people evacuating a room with fixed obstacles.

Keywords: Discrete-event, Simulation, Modelling, Cell-DEVS

Developer:

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