Optimizing Social Distance Keeping in Indoor Environments via a Public Display Navigation Support System

Main setup

scenario: hospital | Setup | Simulate | Simulate

initial-number-of-visitors 0 | max-capacity 2000 visitors

spawn-rate 4 seconds | dynamic-signage-rate 1.00

Hospital scenario settings

mean-visiting-time 45 minutes | max-visiting-time 60 minutes

staff-members-per-level 0 | On Off staff-switches-levels?

mean-treatment-time 15 minutes

Airport scenario settings

gate-open-period 6 minutes | mean-passen... 90 passengers

Public Display settings

area-of-awareness 10.0 meters | angle-of-awareness 15 degrees

On Off use-stop-feature? | mean-waiting-tol... 500 seconds

On Off show-areas-of-awaren... | On Off use-static-signage?

On Off consider-people-at-adj... | On Off force-all-visitors-to-stick...

On Off scan-movement-directi...

Contact settings

contact-radius 1.5 meters | critical-period 15 minutes

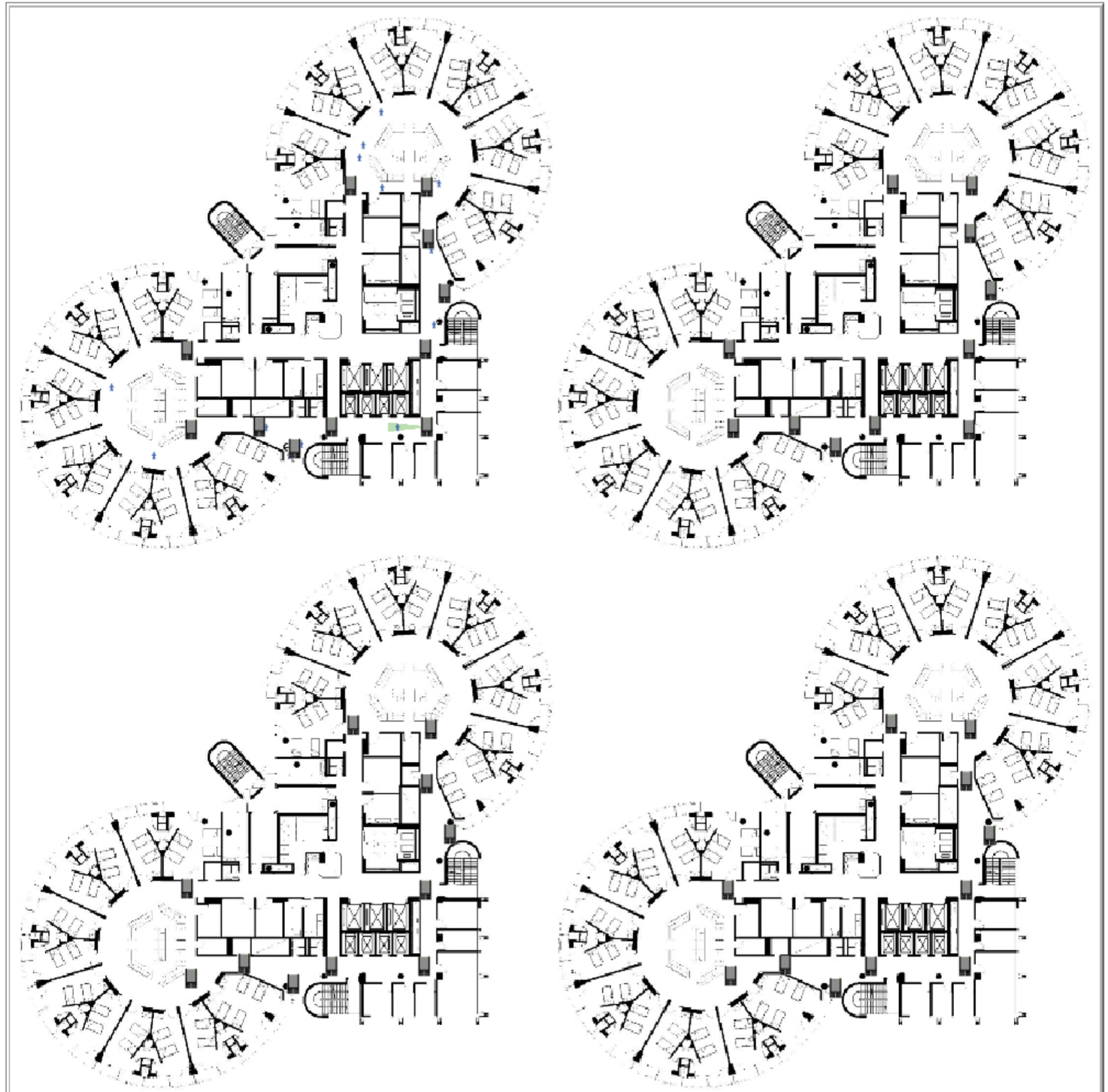
contact-tolerance 2 seconds | On Off show-circles?

Additional options

On Off show-paths? | On Off show-walking-paths?

On Off show-logs? | On Off show-contacts?

On Off show-labels? | On Off enable-gis-extension?



Employees	Current visitors	Visitors in total	Density	Time (s)
0	571	572	0	2864

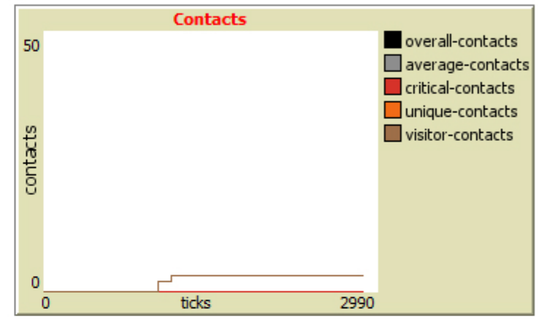
Number of contacts	Avg. number of contacts per pe...
3	0.005

Unique contacts	Critical contacts
3	0

Contacts between visitors	Visitor-staff contacts	Staff contacts
3	0	0

Arrival contacts	Departure contacts
0	0

Avg. contact duration (s)	Avg. contact distance (m)
13	1.192



Speed and social force settings

dt 1.00 | V0 1.2

A 2.0 | D 2.0

Tr 1.3

Helper functions

Start/stop observe agent | Start/stop observe display

show-coordinate | stop-at-ticks: 0

Transform nodes (CSV)

Output generation

On Off write-output? | output-steps 1000