Package 'li19trustmodel'

January 29, 2020

Title Li 19 Trust Model

Version 0.0.1.9000

Description Simulate The Trust Model Proposed In Context-Aware Trust
Management System for IoT Applications with Multiple Domains

Imports ggplot2,
png,
tcltk2,
R6,
rjson,
Cairo,
igraph

License What license it uses

Encoding UTF-8

LazyData true

RoxygenNote 7.0.1

Suggests testthat (>= 2.1.0)

Collate 'Adversaries.R'
'BaseStation.R'
'Device.R'
'Tile.R'
'Functions.R'
'Field.R'
'Params.R'
'Globals.R'
'Normalizers.R'
'Observation.R'
'Observer.R'
'ServiceProvider.R'
'Simulation.R'
'TrustModel.R'

R topics documented:

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batch_simulation   *Run a batch of simulations in a console interface*

Description

Simulate the trust model and the mobile network and iterate for an amount of time for differing amounts of adversaries

Usage

```
batch_simulation(
  total_time,
  map_filename = system.file("extdata", "map.csv", package = "li19trustmodel"),
  config = system.file("extdata", "params.json", package = "li19trustmodel"),
  num_adversaries = c(0, 2, 5, 8, 10),
  adversary_types = c("BadMouther", "ContextSetter"),
  colours = c("blue", "red", "green", "orange", "purple")
)
```

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run_gui   *Run the simulation in a graphical interface*

Description

Simulate the trust model and the mobile network and iterate

Usage

```
run_gui(
  map_filename = system.file("extdata", "map.csv", package = "li19trustmodel"),
  config = system.file("extdata", "params.json", package = "li19trustmodel")
)
```

---

run_simulation   *Run the simulation in a console interface*

Description

Simulate the trust model and the mobile network and iterate for an amount of time

Usage

```
run_simulation(
  total_time,
  map_filename = system.file("extdata", "map.csv", package = "li19trustmodel"),
  config = system.file("extdata", "params.json", package = "li19trustmodel"),
  write_plots = TRUE
)
```

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