



Agents Survivability in Logistics Problem

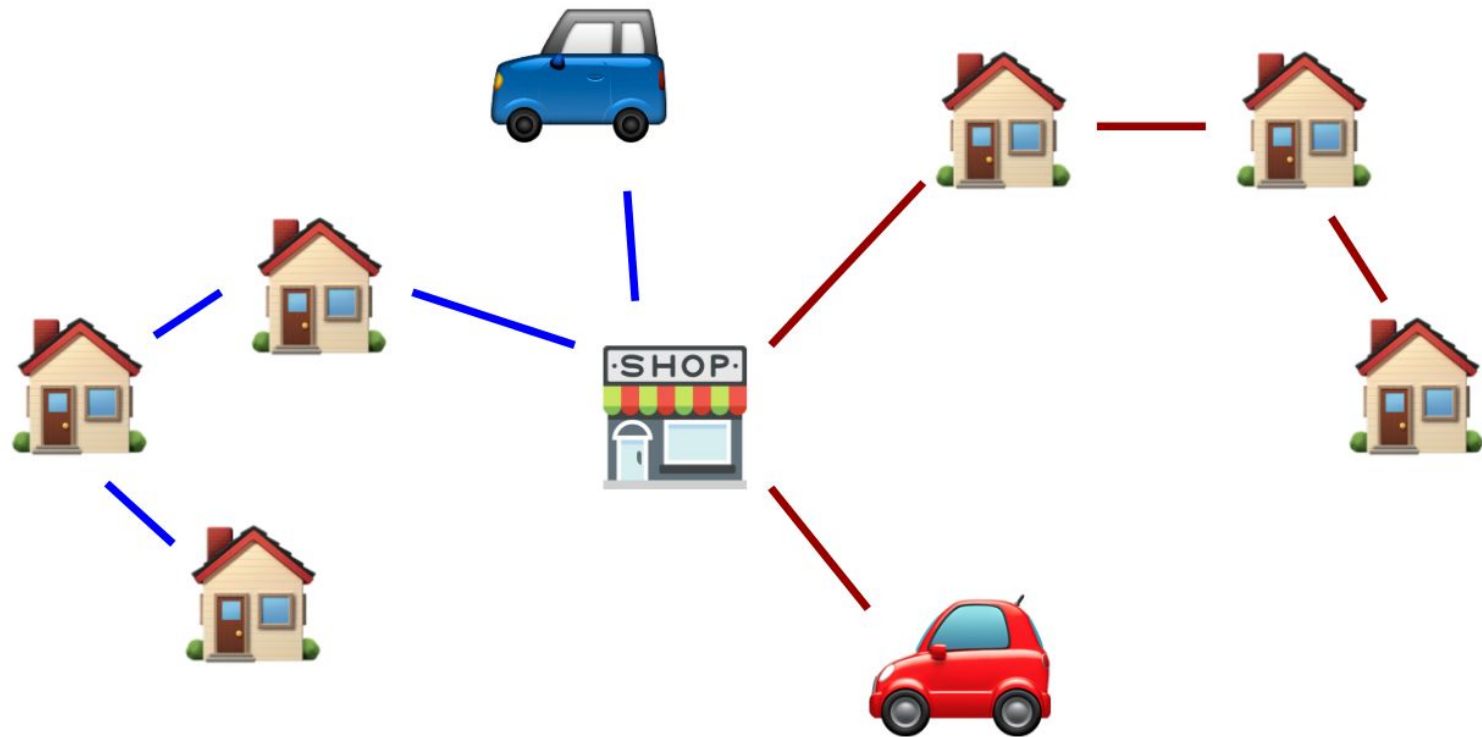
AASMA Group 17



Problem

Study agent survivability in a hostile environment using logistics domain

- Which parameters have the largest impact on agent survivability?
- How relevant is the network structure relatively to agents characteristics?
- Is there an optimal configuration that maximizes survivability?



Agents - Truck

Owned by a Company agent

Limited capacity

Plans routes that may pass by multiple clients

May be removed by a random truck explosion event



Agents - Company

Owens truck agents

Distributes offers to its truck agents

Participates in client auctions to win offers

Suffers an existence tax in each time-step

We want to study their survivability for multiple parametrizations



Agents - Client



Generates offers to be auctioned to companies

Contains a list of preferences for each company to influence auction decisions

