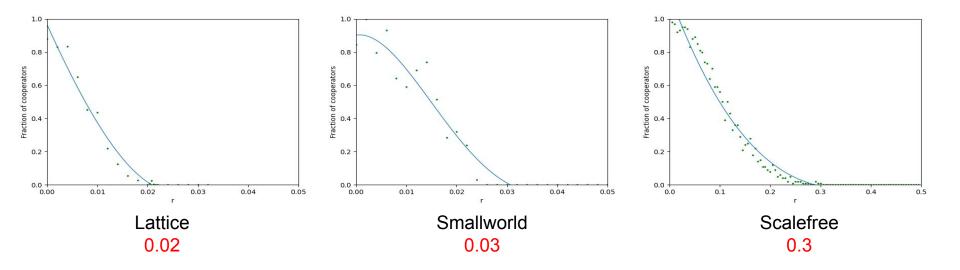
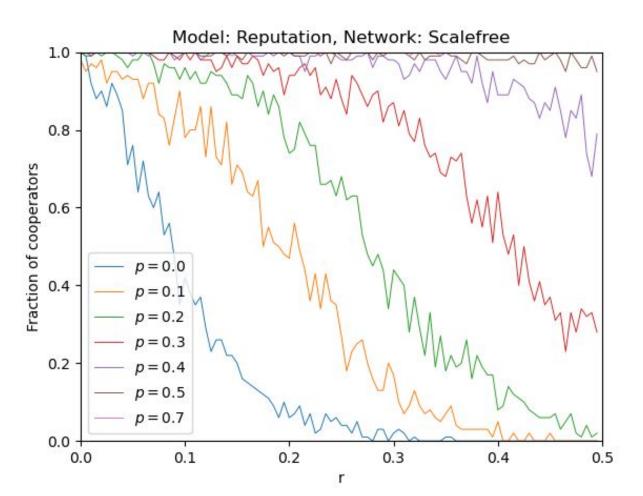
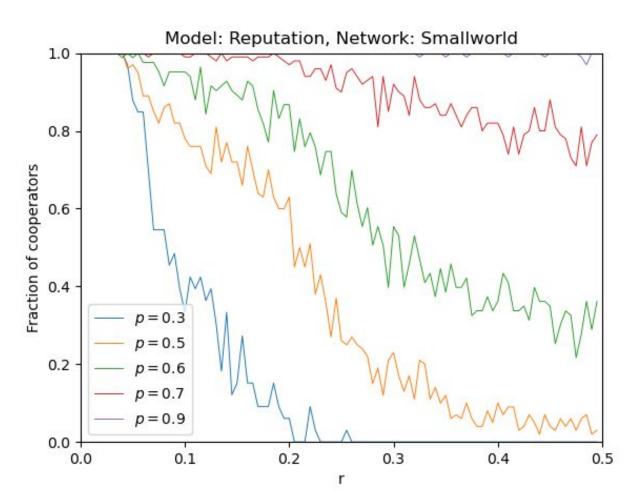
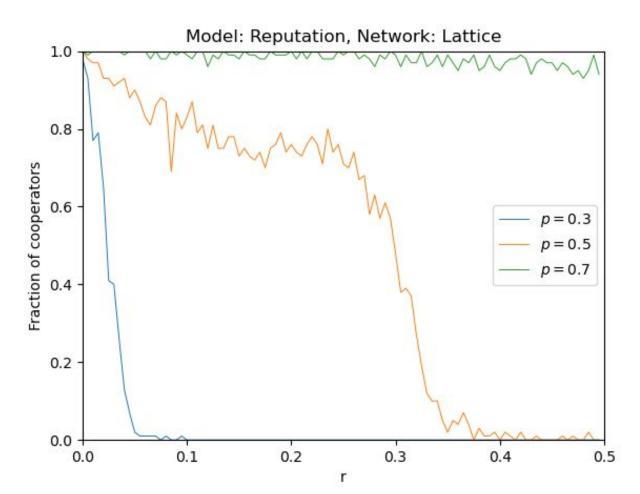
#### Models

- Imitation-based
- 2. Bayesian
- 3. Reputation + fr-Threshold
- 4. fc-Threshold



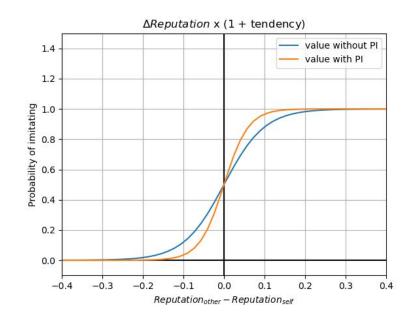


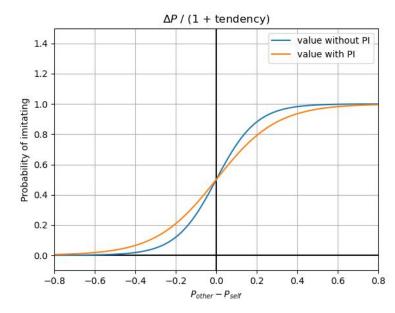


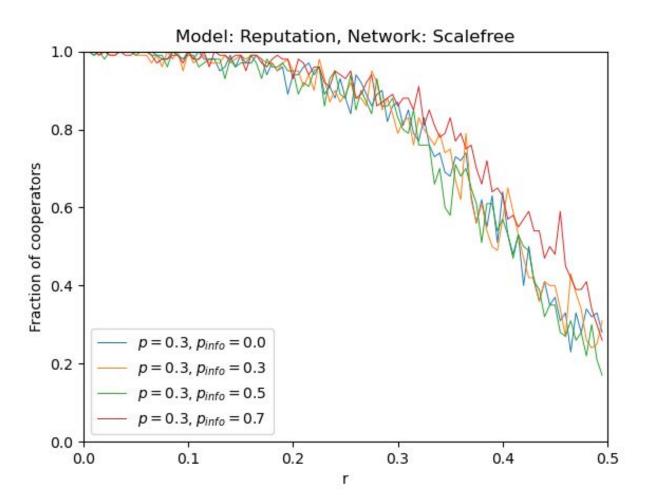


### Reputation

Two new parameters called  $p_{info}$  (representing the degree of dissemination of 1 unit of public information) and *tendency* (the tendency of an individual to use this information) is introduced. Assumption - knowledge of public information collectively benefits the agents i.e. promotes cooperation.

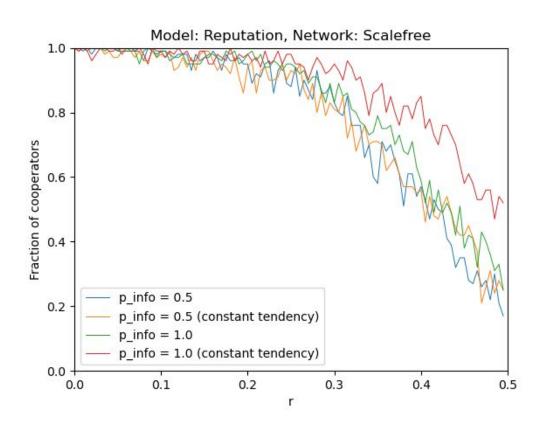






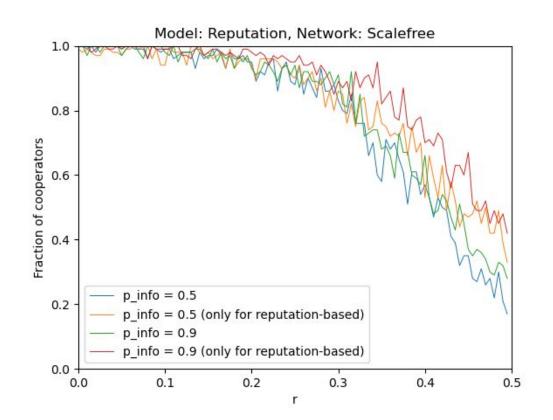
## Reputation - Public Information

Set tendency to be a constant ( = 0.5)



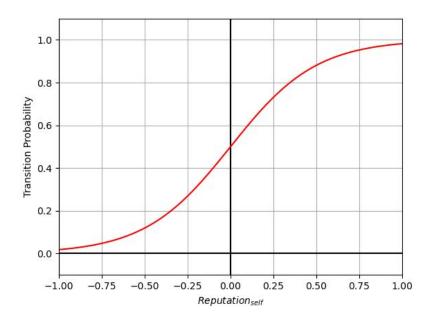
### Reputation - Public Information

Access to public information is given only to agents choosing reputation-based imitation

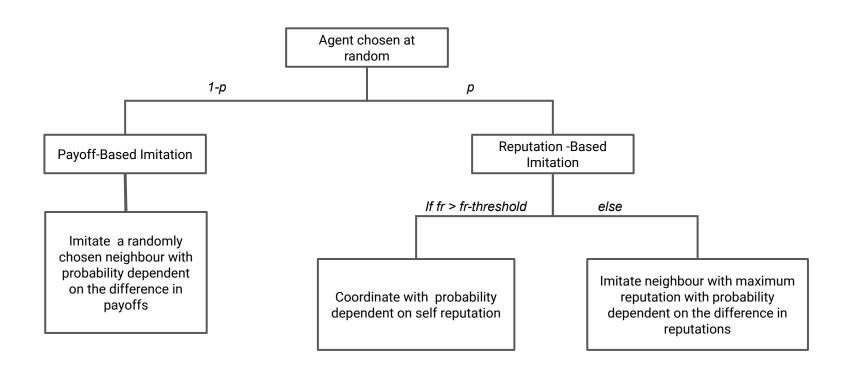


### Reputation : fr-Threshold

The public information is the fraction of agents in the population who have reputation >0.9. If this fraction (fr) is greater than the fr-threshold of the agent, then it chooses to cooperate with a certain transition probability (given below). All agents have access to the information.



### Reputation: fr-Threshold



# Reputation: fr-Threshold

