

Centralised information exchanges

Concept. The idea here is

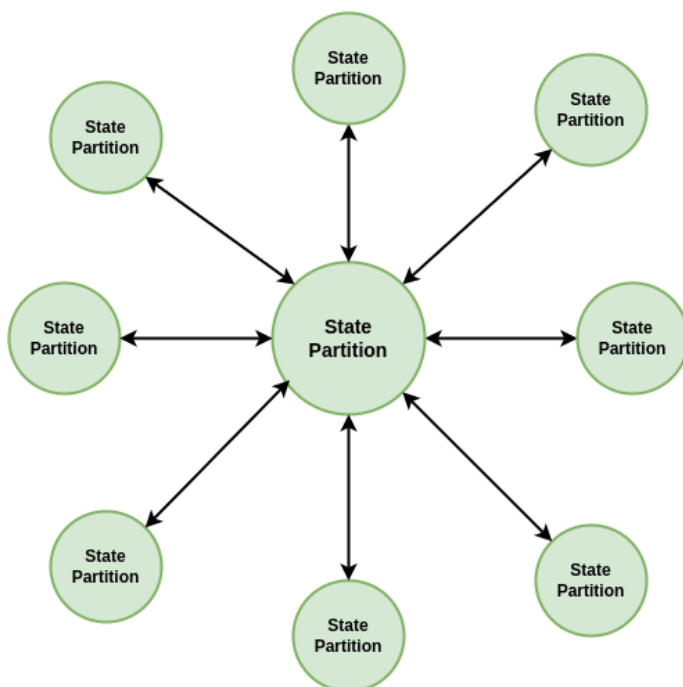


Figure 10.1: State partition graph topology for centralised information exchange archetypes.

- Full sim: full event-based spatial stochastic model

- Inference model: spatial mean field inference features using the probabilistic reweighting
 - Also use the likelihood-free inference model?
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- Humanitarian aid logistics in response to flooding, fire or other natural disasters
 - Routing of transportation
 - Where to focus searches
 - Transportation size distribution
 - Supply chain logistics of resources and allocation of budget
 - Example paper here with stochastic network models [\[1\]](#)

Bibliography

- [1] D. Alem, A. Clark, and A. Moreno, “Stochastic network models for logistics planning in disaster relief,” *European Journal of Operational Research*, vol. 255, no. 1, pp. 187–206, 2016.