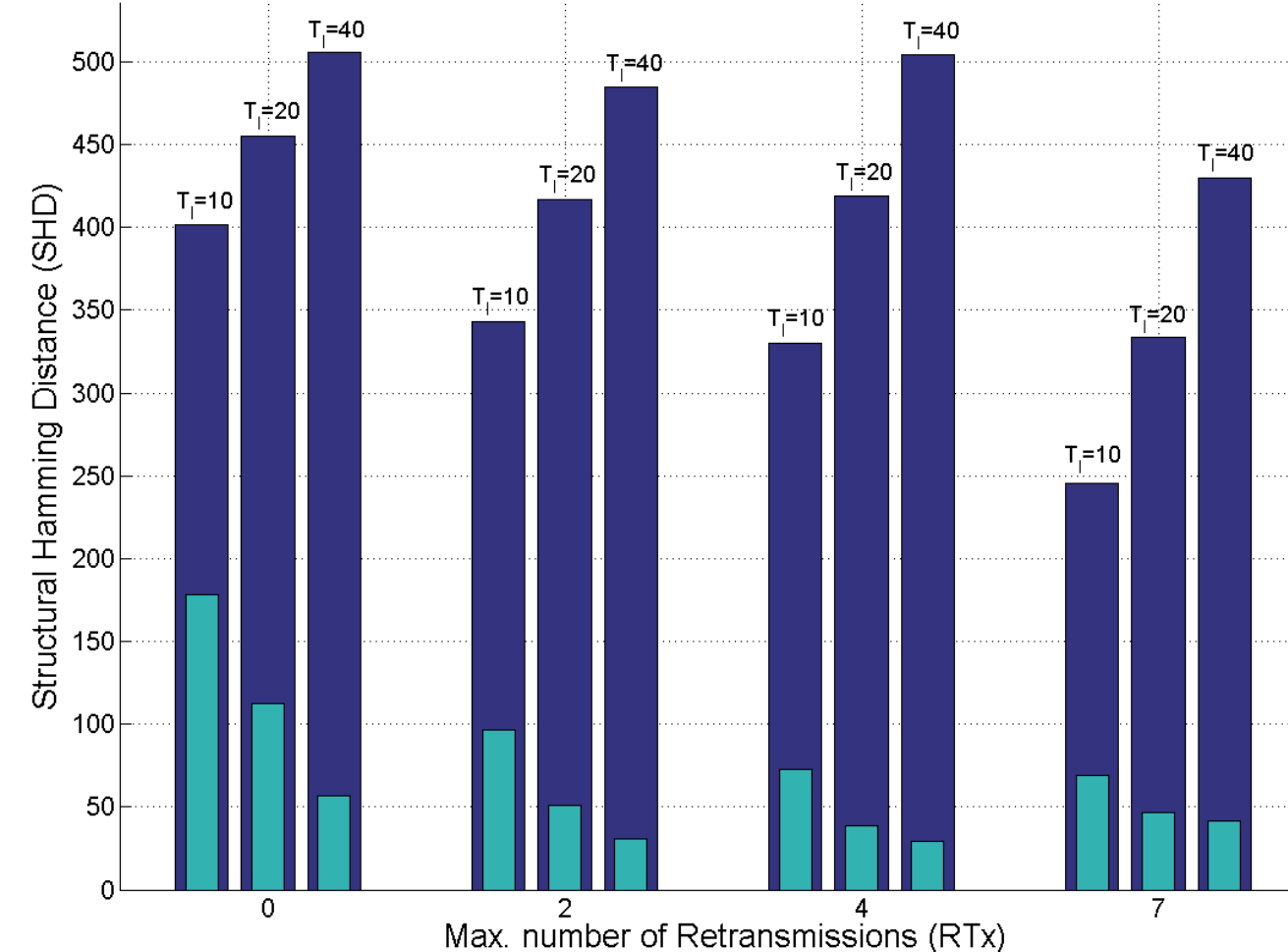
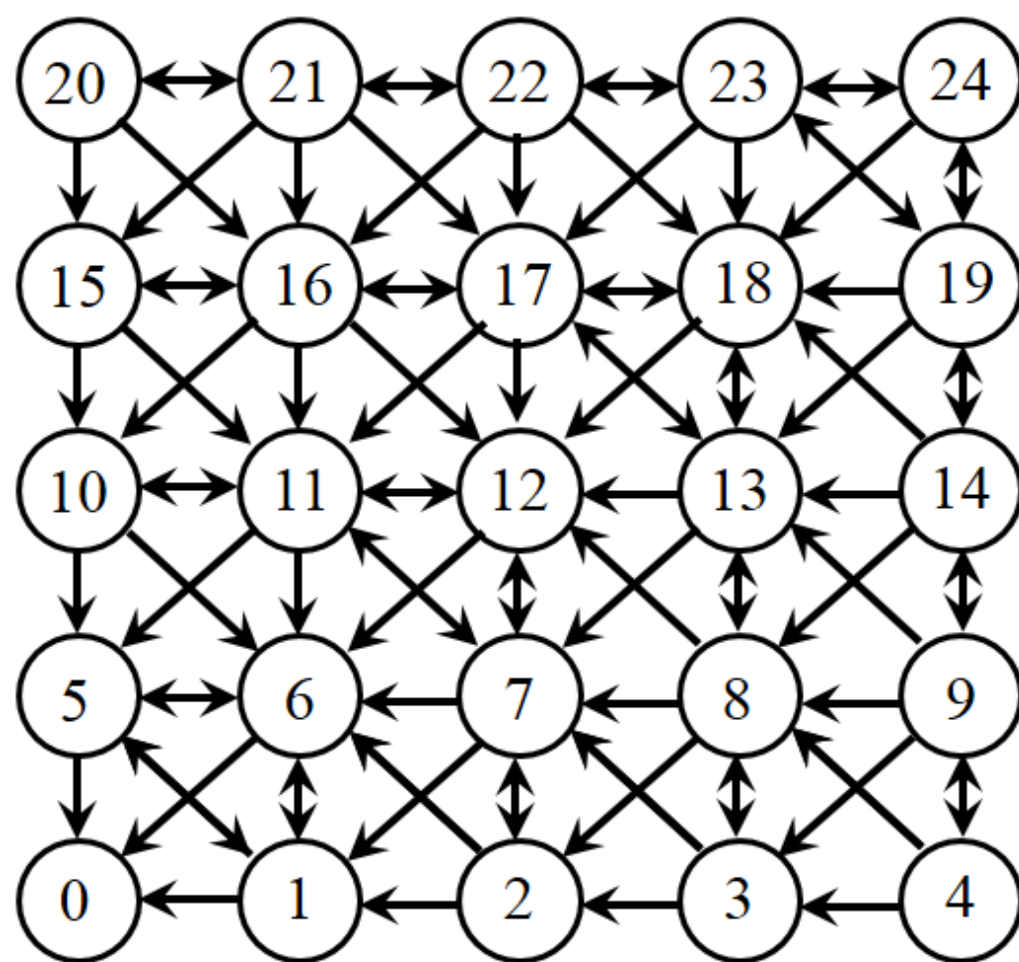


Inferring Communication Network Topology via Transfer Entropy

Objective

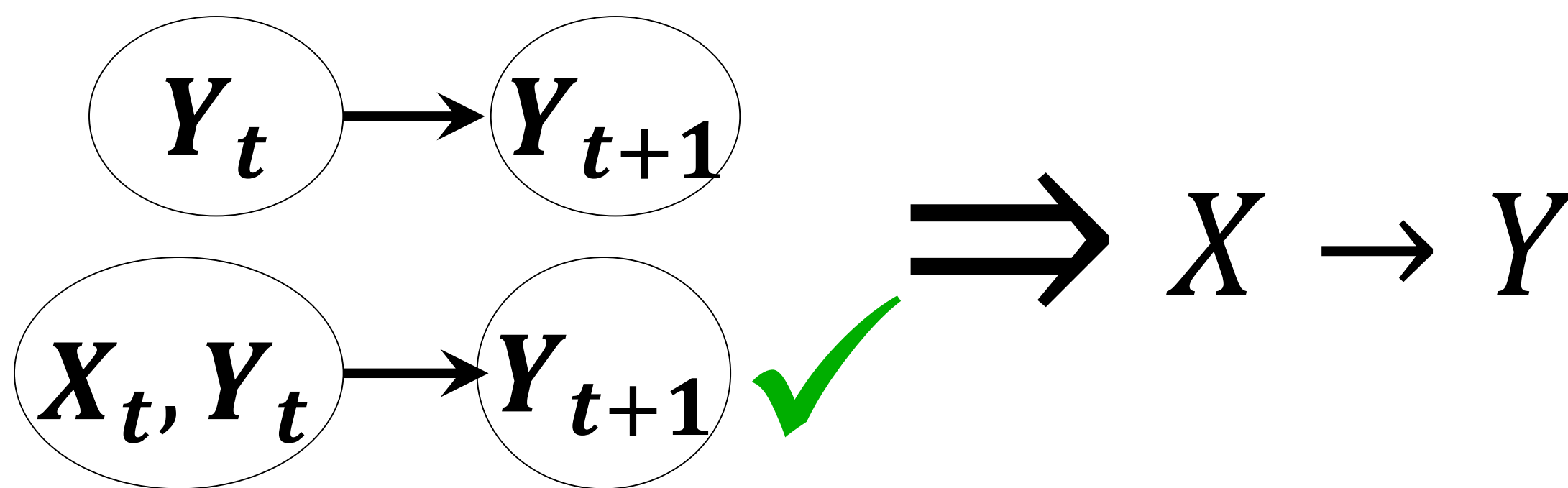
- Infer links in a network using packet exchange information
- Non-invasive
- Access to time instants when packets arrive
- Use causal inference theory



Future Work:

- Generative models for efficient TE estimation

Central Idea



Contribution

- Transfer Entropy – **model independent!**
- 2-step Network Inference Algorithm
 - Better reconstruction performance
 - Low time complexity

Other Applications

