Similarity-based Privacy Protection for Publishing k-Anonymous Trajectories

Shuai WANG, Chunyi CHEN, Guijie ZHANG

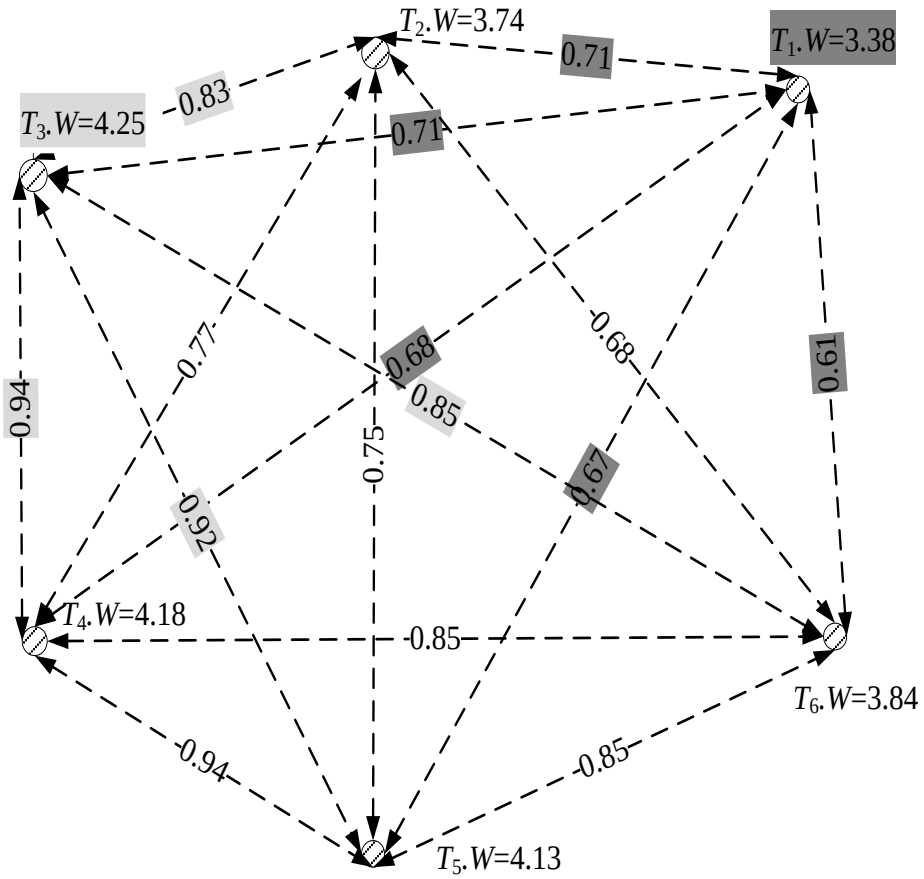
Frontiers of Computer Science, DOI: 10.1007/s11704-020-0271-y

Problems & Ideas

- Cluster-reconstruction of trajectories is a common privacy protection method for publishing trajectories

- First, we propose a method to measure the similarity of trajectories, which improves the robustness against noise and the accuracy to the difference.

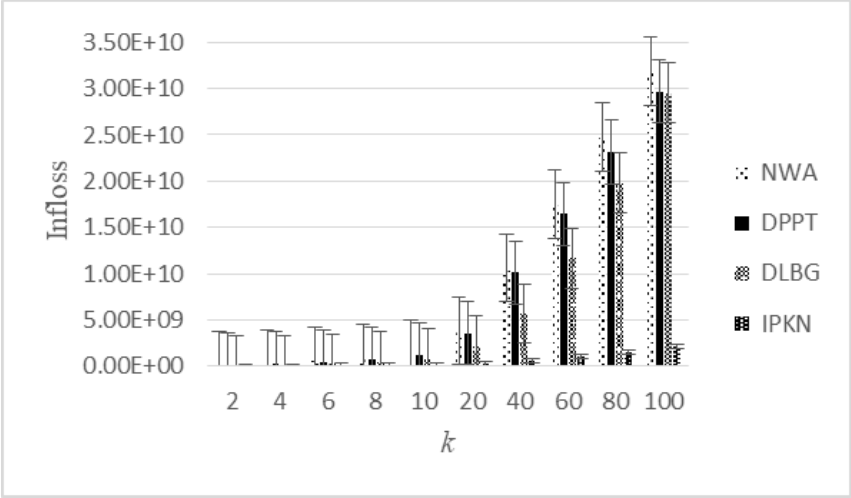
- Then, we map the trajectories and their similarity relations to a network (TRN) and cluster them.



Main Contributions

More reasonable clustering of trajectories in our DPPT reduces the information loss of reconstructed trajectories and improves their availability.

- **Information loss caused by different algorithms to Oldenburg**



- **Execution time of different algorithms on Trucks;**