

Traffic optimization

Watanabe et al. (2011) propose a biology-inspired algorithm for the optimization of traffic networks.

Questions

1. Motivate the importance of traffic optimization. What other algorithms have been used in the literature? Briefly explain at least two.
2. Explain the method proposed by Watanabe et al. (2011). Implement and test a traffic optimization algorithm on a (synthetic) network.

References

Watanabe, S., Tero, A., Takamatsu, A., and Nakagaki, T. (2011). Traffic optimization in railroad networks using an algorithm mimicking an amoeba-like organism, *physarum plasmodium*. *BioSystems*, 105:225–232.