

Fast Unbalanced Optimal Transport on Tree

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1. Abstract

In this paper we propose a Lasso-based model for unbalanced Optimal Transport (OT) on tree that can be efficiently computed in linear time. This improves the previous time complexity $O(n \log^2 n)$ using Generalized Kantorovich Rubinstein (GKR) model [1].

References

- [1] R. Sato, M. Yamada, and H. Kashima, “Fast unbalanced optimal transport on a tree,” *Advances in neural information processing systems*, vol. 33, pp. 19039–19051, 2020.