



Key Takeaways

structuredOT

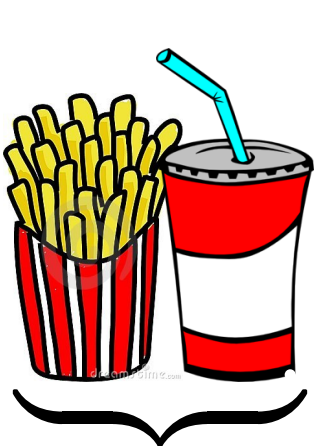
3

4

Structured cost via submodularity

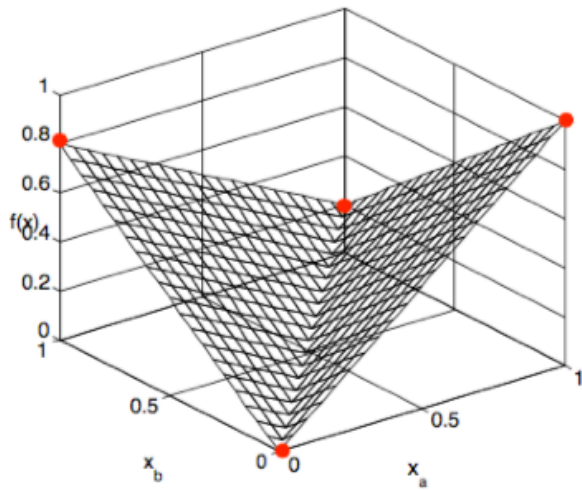
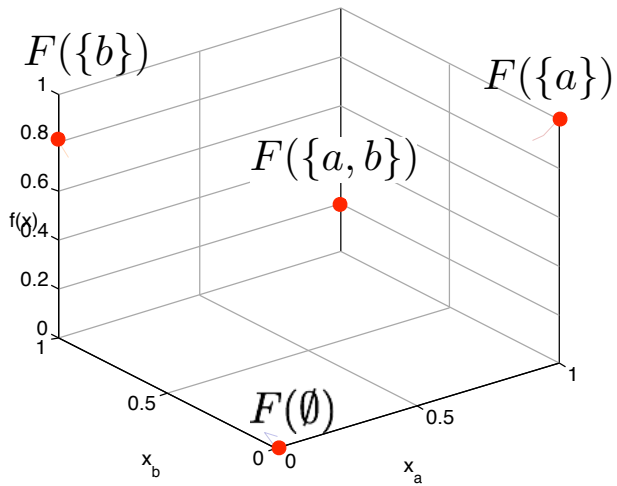
Relaxation with Lovász extension

Effective structure for environment

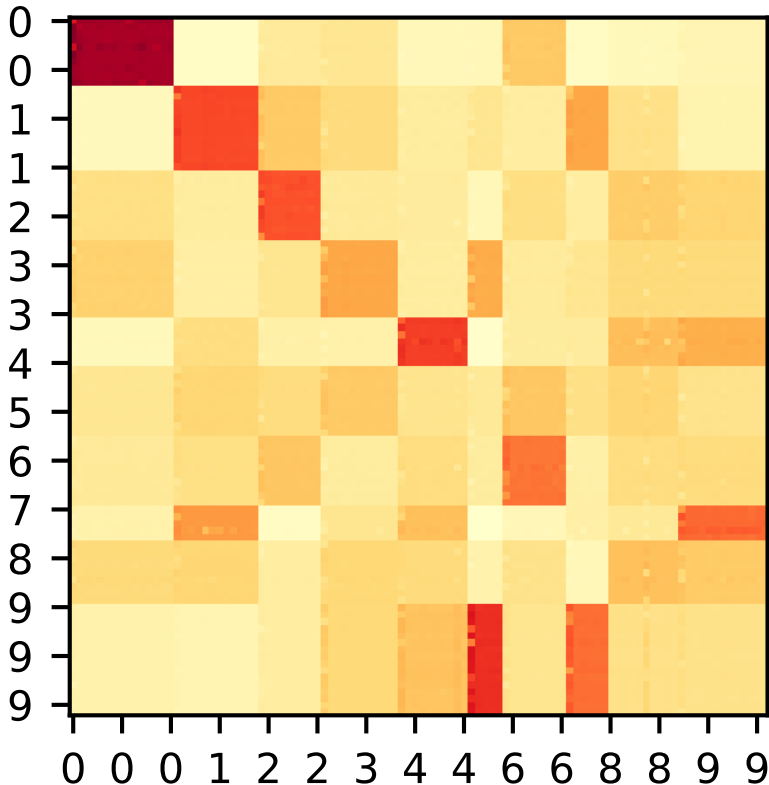


B





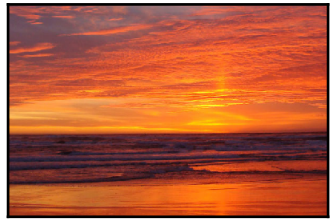
Submodular



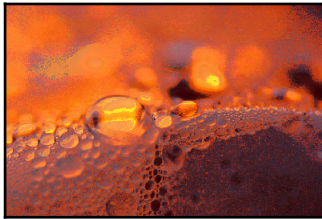
Source



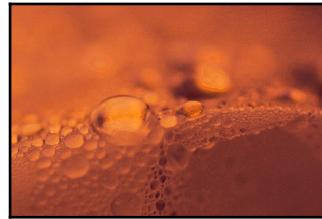
Target



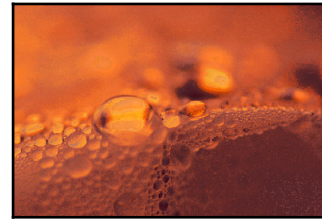
EMD



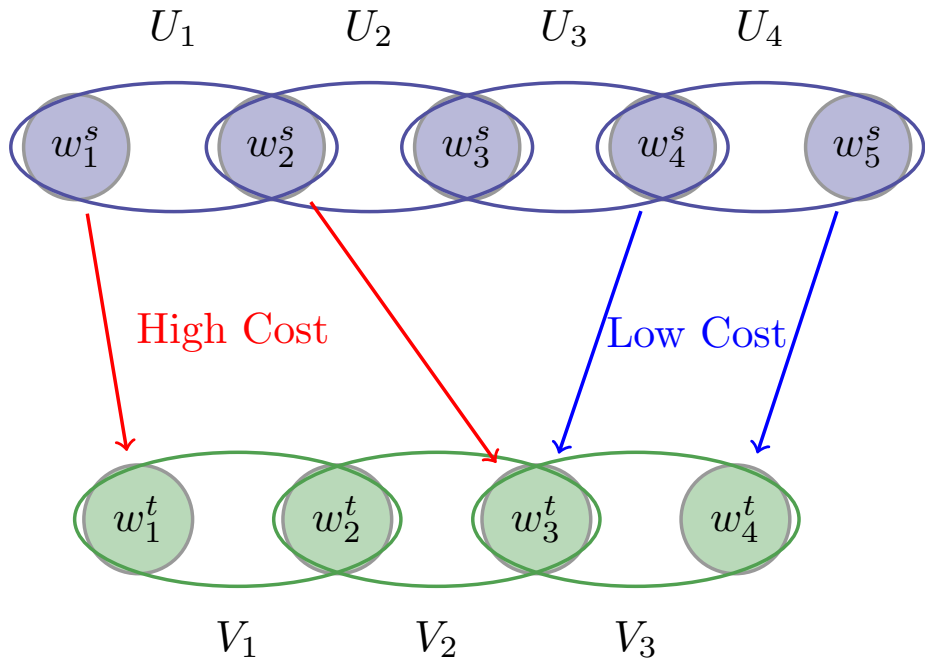
Entropy-regularized



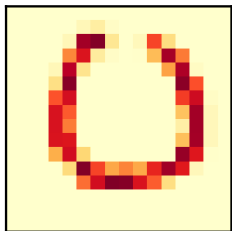
Submod OT



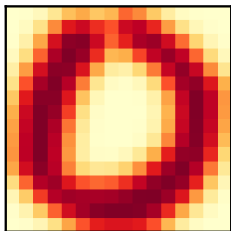
Applications in domain adaptation,
sentence similarity, color transfer



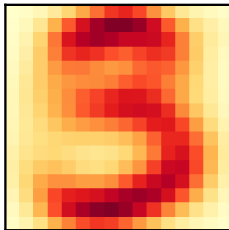
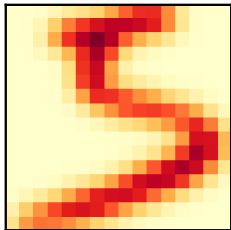
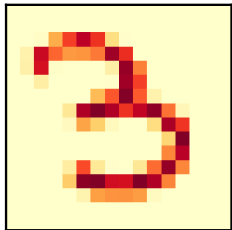
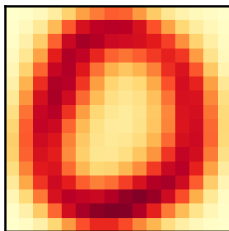
Source



EMD



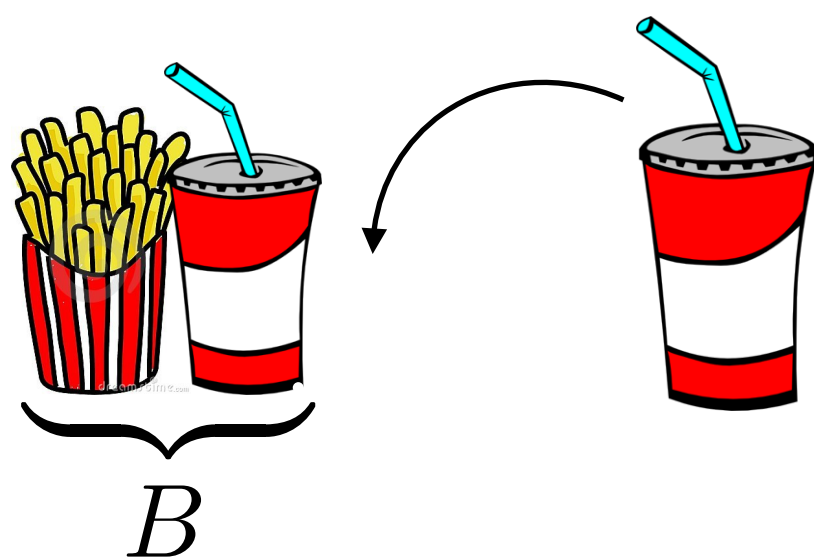
Submodular



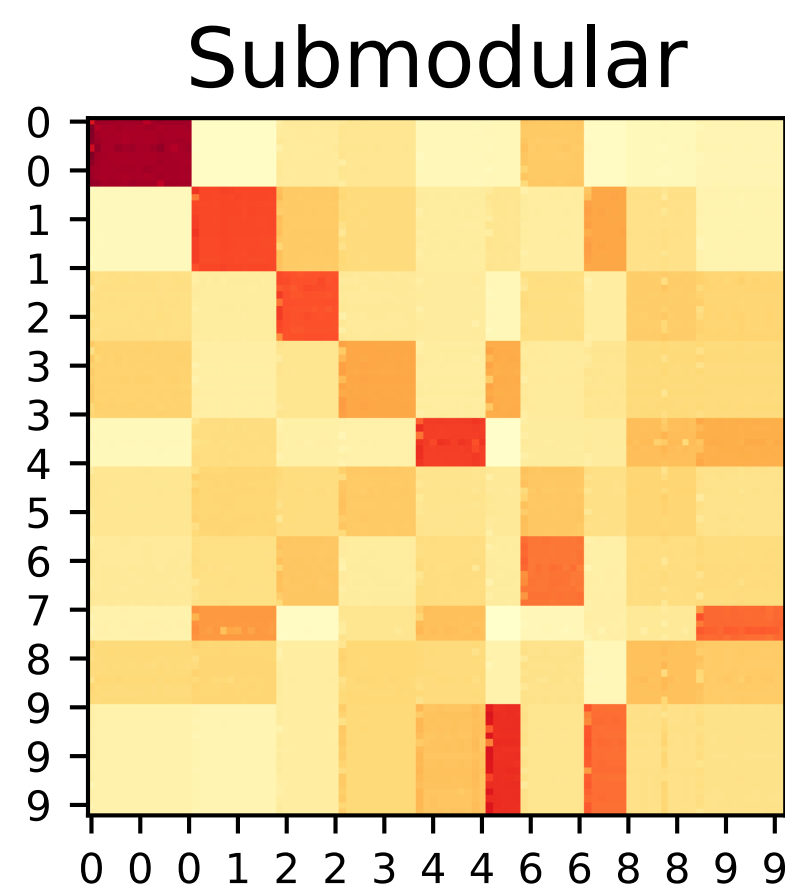
Structured OT

Key Takeaways

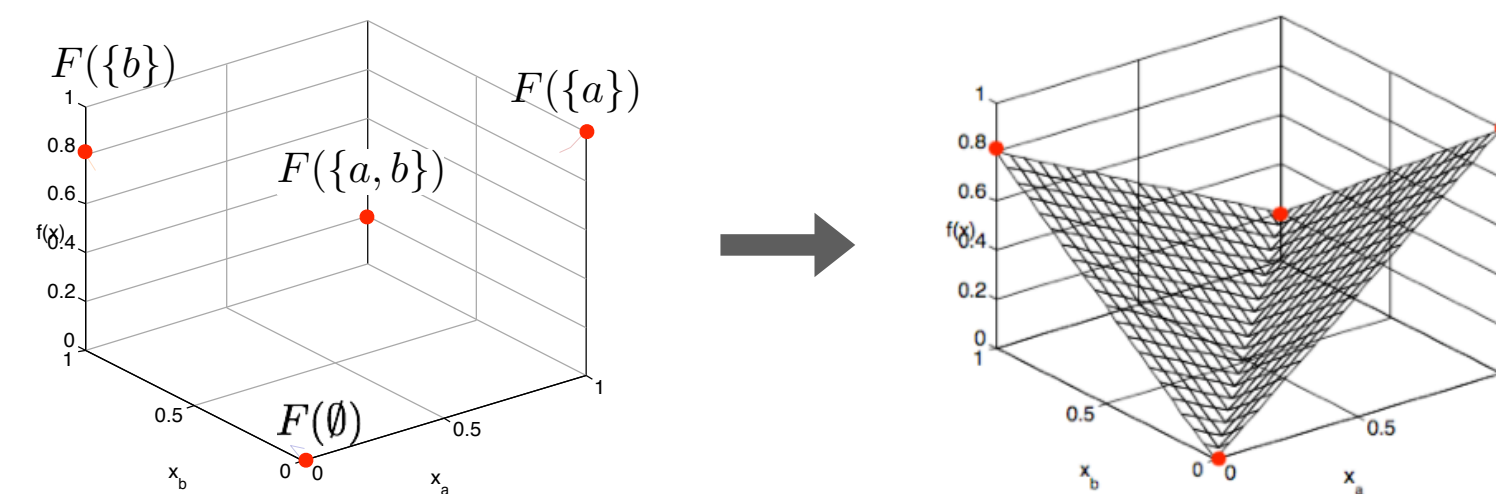
Structured costs via submodularity



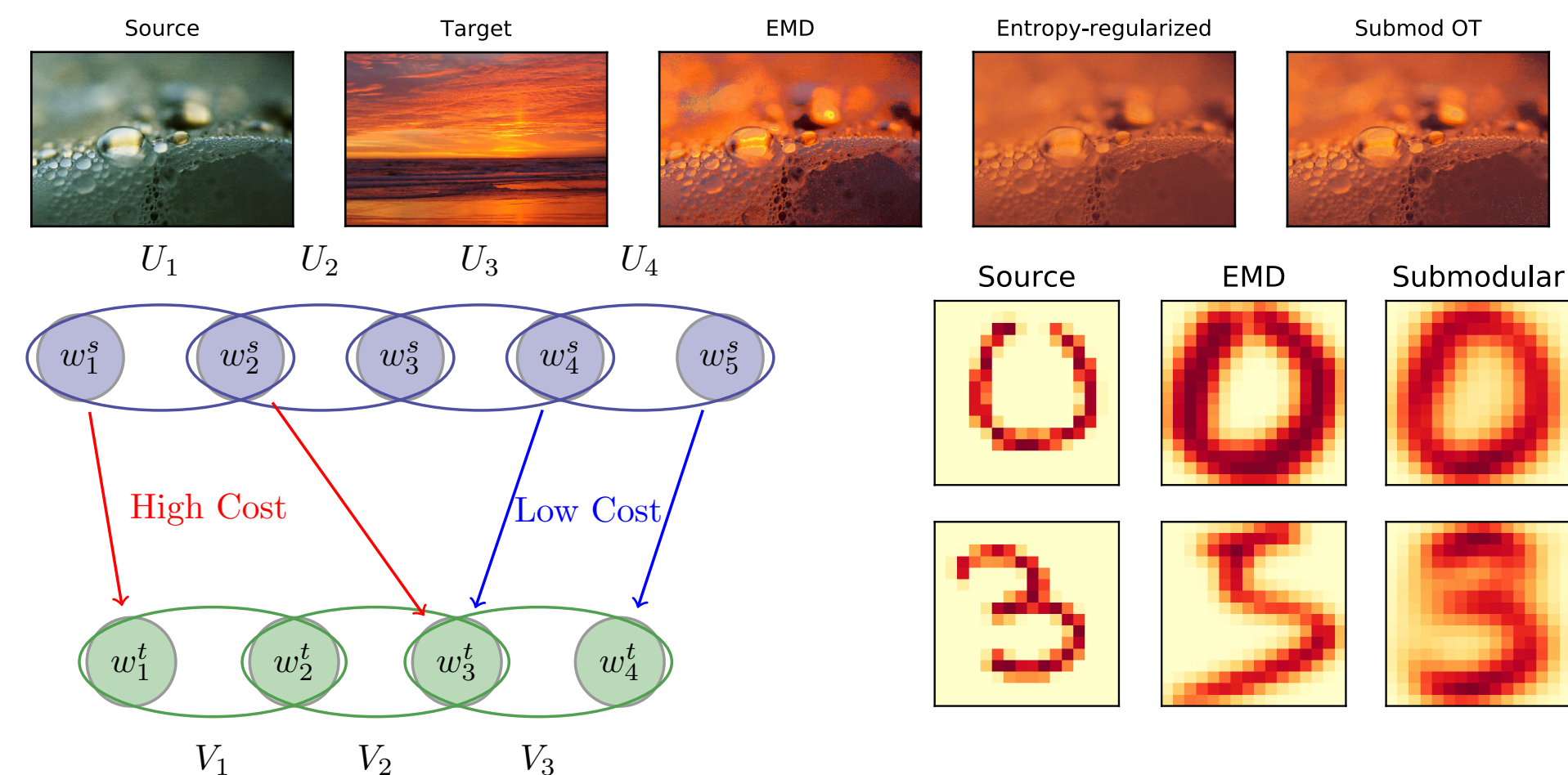
Effective structure enforcement



Relaxation with Lovász extension



Applications in domain adaptation, sentence similarity, color transfer



Part II: OT with Global Invariances

Based on: AM & Jaakkola. "*Gromov-Wasserstein Alignment of Word Embedding Spaces*", EMNLP 2018
AM, Jegelka, Jaakkola. "*Towards Optimal Transport with Global Invariances*", AISTATS 2019