





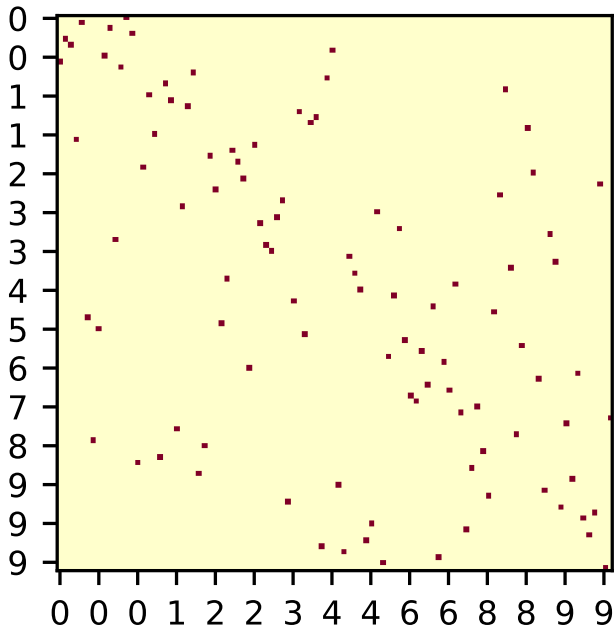
Application: Domain Adaptation

structures do not

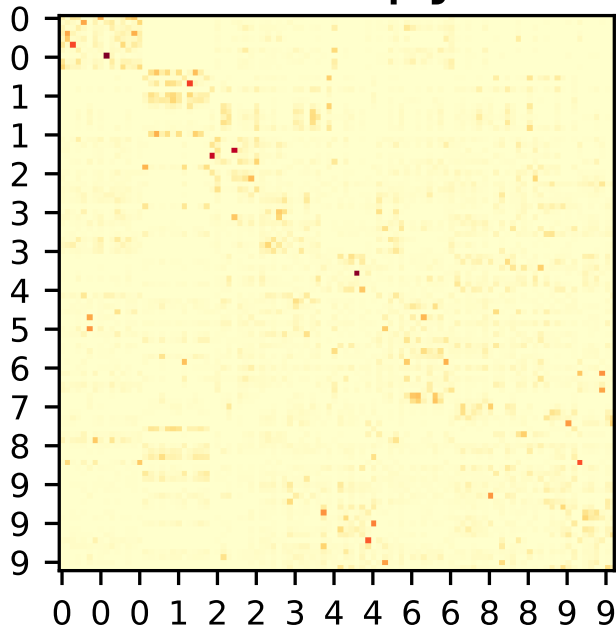
3

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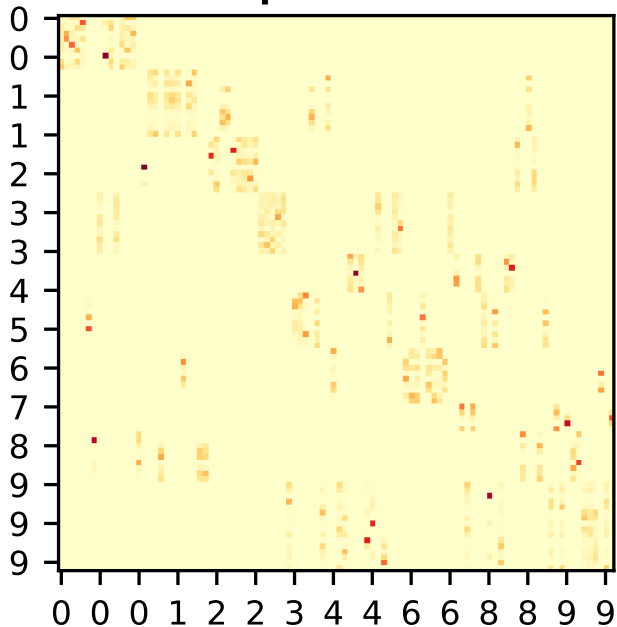
# EMD



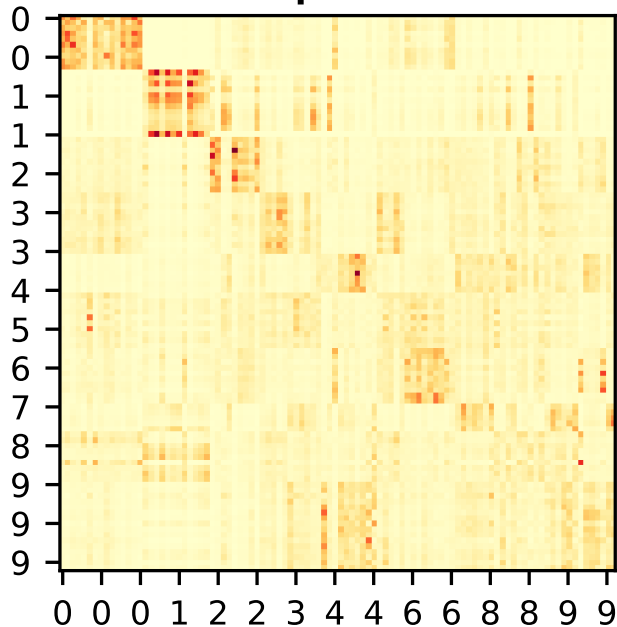
# Entropy



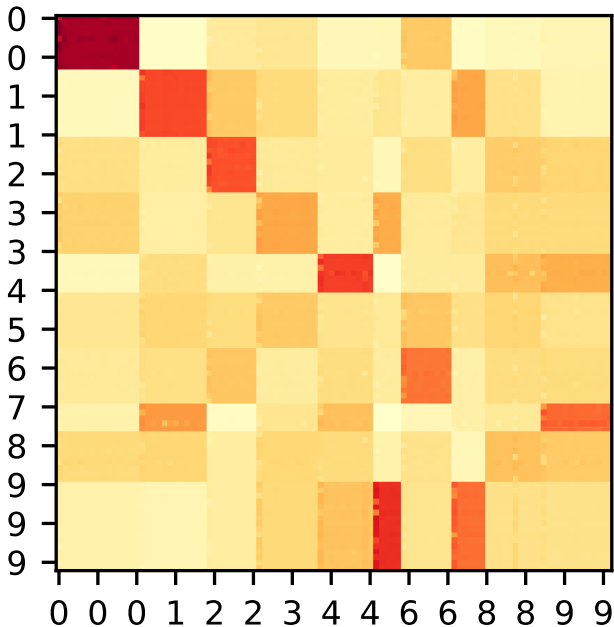
# Laplacian



# Group-Lasso



# Submodular







Penalty-based methods  
[Courty et al. 2017]



3

0

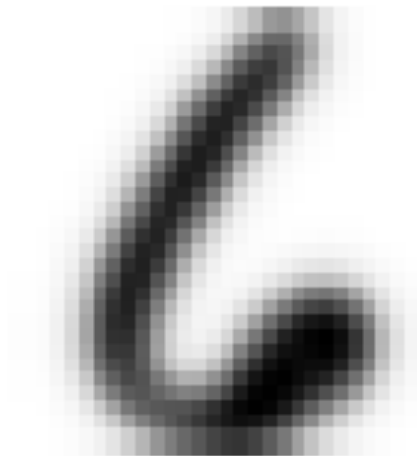
Task: Digit Classification Domain: MNIST  $\leftrightarrow$  USPS

Training Data: 100 source (labeled), 100 target examples

MNIST



USPS





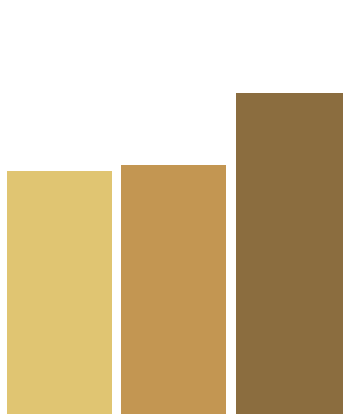




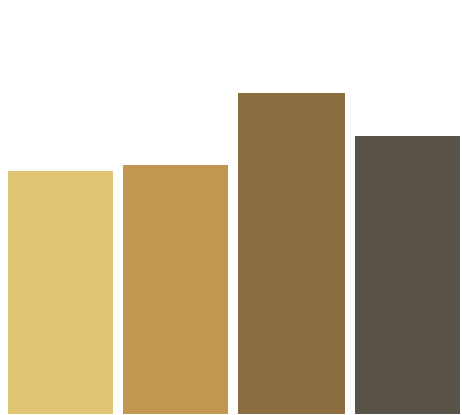
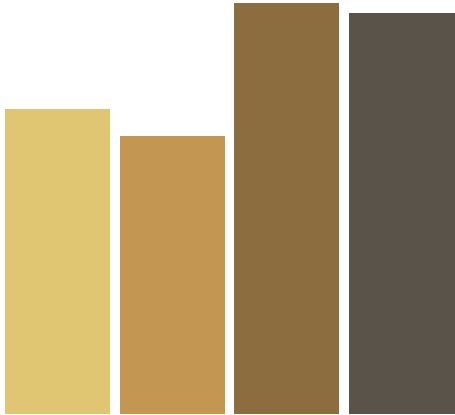




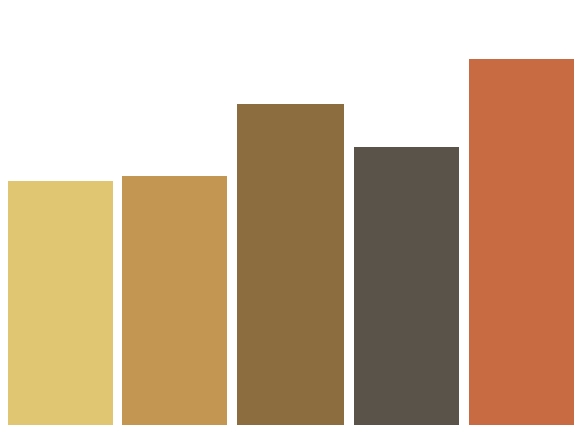
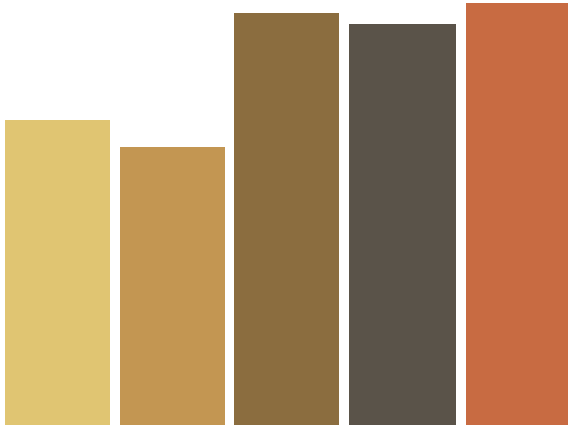














# Structured OT

## Application: Domain Adaptation

**Task:** Digit Classification

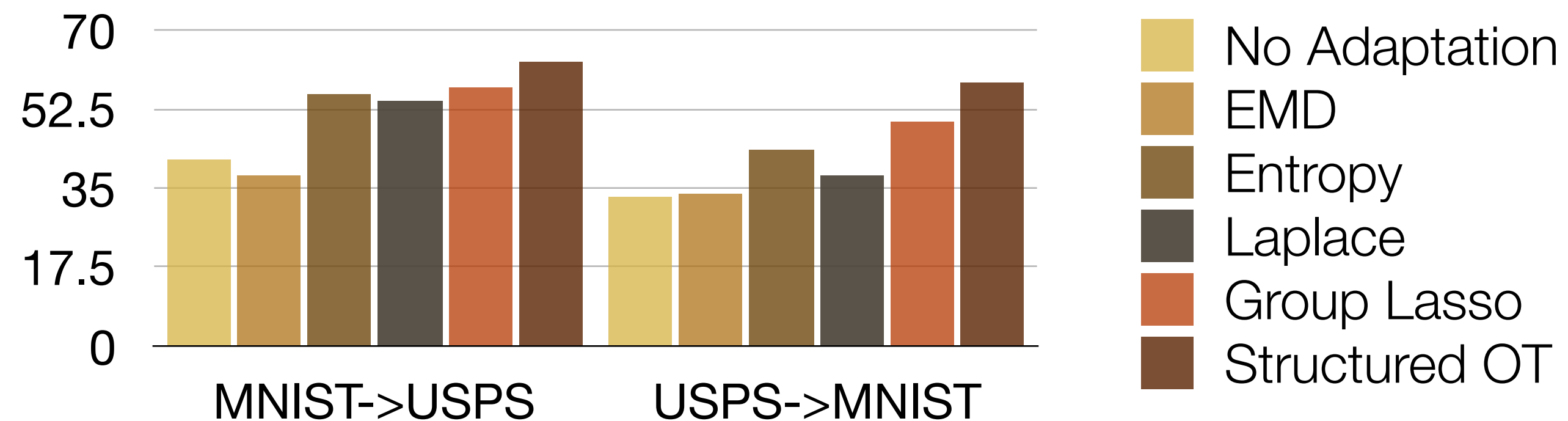
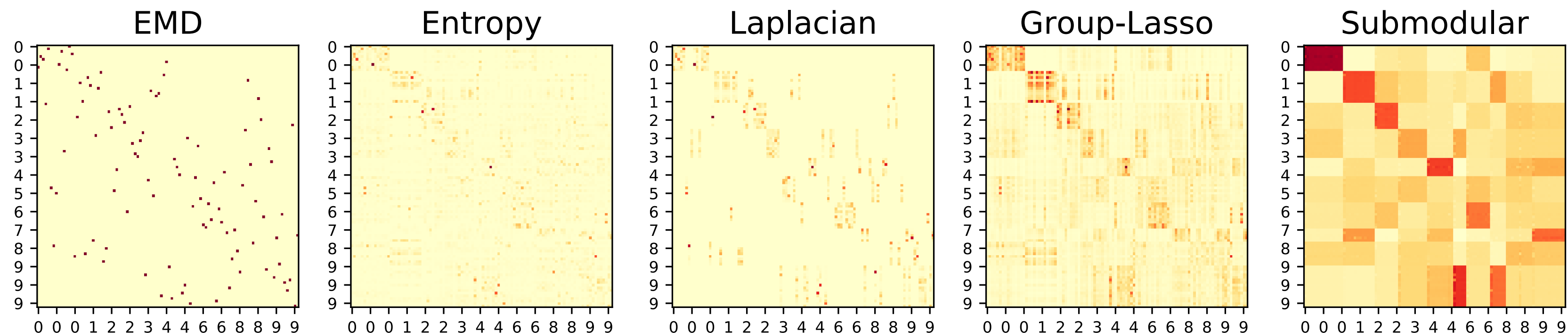
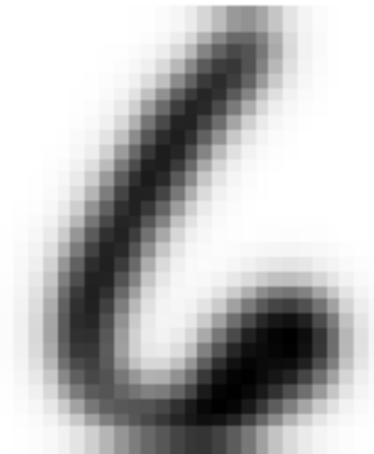
**Domains:** MNIST  $\leftrightarrow$  USPS

**Training Data:** 100 source (labeled), 100 target examples

MNIST



USPS



# Structured OT

## Key Takeaways