

# Domain Generalization for Object Recognition with Multi-task Autoencoders

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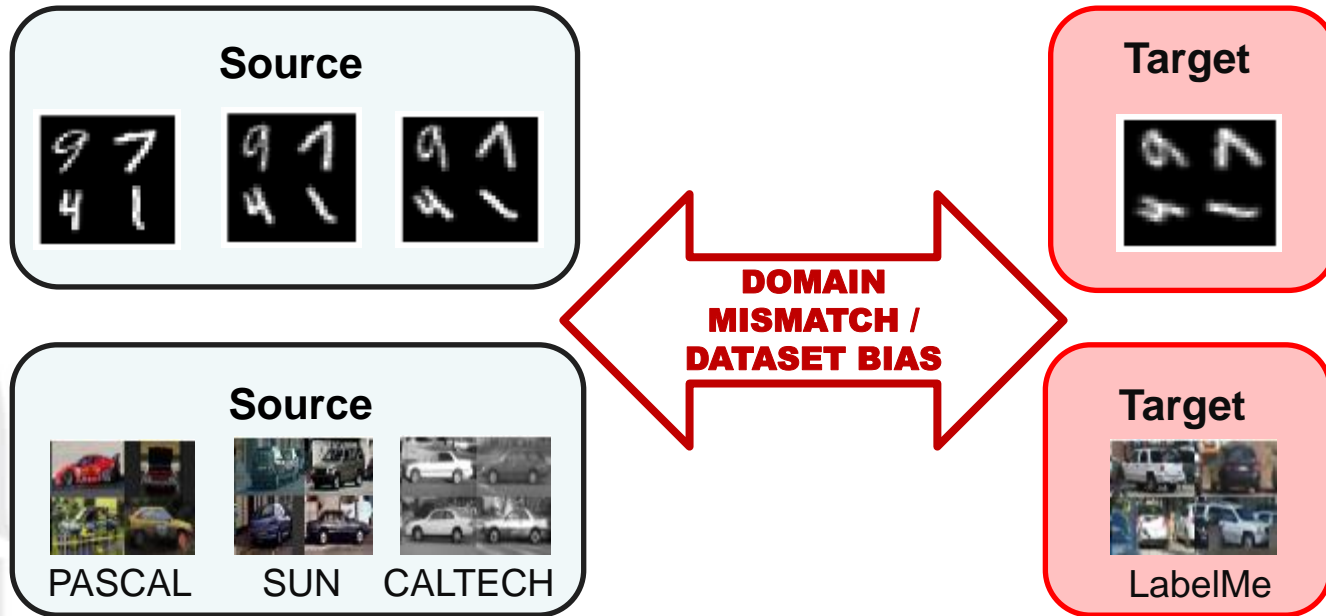
Mengjie Zhang

David Balduzzi

*“Wisdom is more to be desired than gold”*

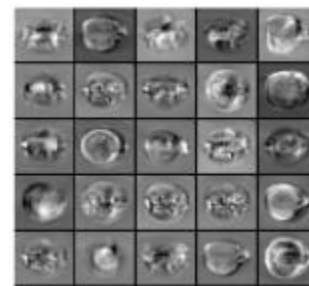
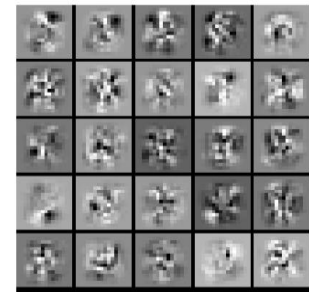
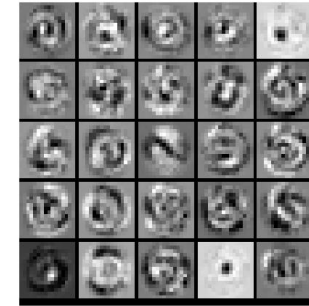
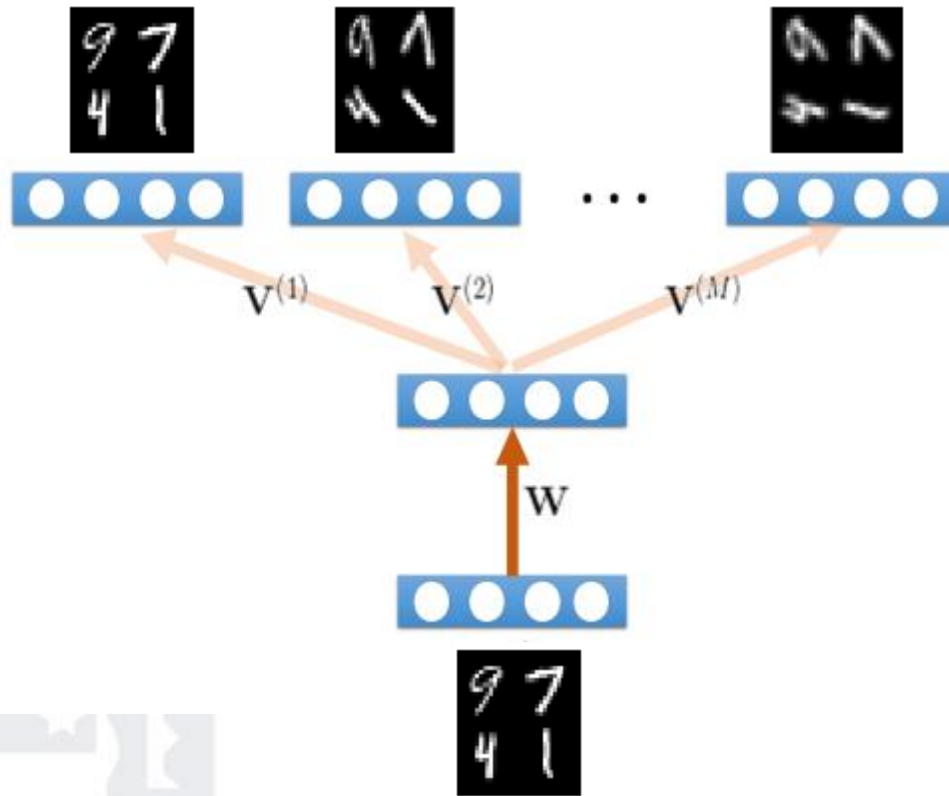


# The Problem of Domain Generalization



- ❑ Problem: neither labeled nor unlabeled data representing the target environment.
- ❑ Domain generalization reduces domain mismatch by leveraging useful knowledge from one or multiple source domains.

# Multi-task Autoencoders



- A feature learning algorithm based on autoencoders and multi-task learning.