

Learning What and Where to Transfer

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November 16, 2022

1 Abstract

1.1 Motivation

As the application of deep learning has expanded to real-world problem with insufficient volume of training data, transfer learning recently has gained much attention as means of improving the performance in such small-data regime.

1.2 Proposed Approach

The author propose a novel transfer learning approach based on meta-learning that can automatically learn what knowledge o transfer from the source network to where in the target network.

1.3 Where to Transfer

Pairs between the source and target networks should be matched for knowledge transfer.

1.4 What to Transfer

Features and how much knowledge from each feature should be transferred.