

# ST Adapter New Model and Performance Comparison





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### Abstract

Abstract Capitalizing on large pre-trained models for various downstream tasks of interest have recently emerged with promising performance. Due to the ever-growing model size, the standard full fine

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ST-Adapter:Parameter-EfficientImage-to-VideoTransferLearningJuntingPan\*,ZiyiLin\*,  
Xiatian Zhu, Jing Shao, Hongsheng Li

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## **ST-Adapter: Parameter-Efficient Image-to-Video Transfer Learning**

Summary: This paper proposes a new Spatio-Temporal Adapter (ST-Adapter) for parameter-efficient fine-tuning on video tasks. With a much smaller trainable parameter, ST-Adapter

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## **ST-Adapter: Parameter-Efficient Image-to-Video Transfer**

The experiments show that the ST-Adapter performs as well as or even better than state-of-the-art video models while requiring less training time and computational resources.

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## **Table 1 from ST-Adapter: Parameter-Efficient Image-to-Video Transfer**

This work proposes a new Spatio-Temporal Adapter (ST-Adapter) for parameter-efficient fine-tuning per video task, with a built-in spatio-temporal reasoning capability in a compact design, that enables a

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4. Ablation Study on Efficiency The same ViT-B/16 with CLIP pre-training is used for all experiments. Models & source code: <https://github.com/linziyi96/st-adapter>

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We release the data list we used for Kinetics-400 (k400, [train list link](#), [val list link](#)) and Something-something-v2 (ssv2, [train list link](#), [val list link](#)), which reflect the class mapping of the released

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## **Parameter-Efficient Image-to-Video Transfer Learning**

With a built-in spatio-temporal reasoning capability in a compact design, ST-Adapter enables a pre-trained image model without temporal knowledge to reason about dynamic video

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## **ST-Adapter: Parameter-Efficient Image-to-Video**

In this work, we investigate such a novel cross-modality transfer learning setting, namely parameter-efficient image-to-video transfer learning. To solve this

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## **NeurIPS Spotlight ST-Adapter: Parameter-Efficient Image-to-Video**

With a built-in spatio-temporal reasoning capability in a compact design, ST-Adapter enables a pre-trained image model without temporal knowledge to reason about dynamic video content at a small

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## **ST-Adapter: Parameter-Efficient Image-to-Video Transfer Learning**

we also show the performance impact of using fewer ST-Adapters. As shown in Table 5b, while more ST-Adapters tend to do better, ST-Adapters at deeper layers boost

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## **ST-Adapter: Parameter-Efficient Image-to-Video Transfer Learning for**

In this work, we investigate such a novel cross-modality transfer learning setting, namely parameter-efficient image-to-video transfer learning. To solve this problem, we propose a new Spatio-Temporal



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