



Contrastive visual clustering for improving instance-level contrastive learning as a plugin

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ABSTRACT

Contrastive learning has achieved remarkable success in computer vision, however it is built on instance-level discrimination which leaves the valuable intra-class correlation in dataset unexploited. Current semantic clustering methods are proven to be helpful but they would suffer from the error accumulated in the iteration process without ground-truth guidance. In an attempt to remedy the clustering error accumulation when utilizing intra-class correlation for contrastive learning, we propose an online Contrastive Visual Clustering (CVC) method with two actions: gathering instances with highly similar feature embeddings, and penalizing instances being clustered with low confidence. CVC can integrate with not only contrastive learning but also arbitrary self-supervised learning frameworks simply as a plugin. Under various experiment settings, we show that CVC improves the linear classification performance by a large margin for models pre-trained with self-supervised representation learning, in both image and video scenarios. The code is available at <https://github.com/yliu1229/CVC>.

1. Introduction

With Self-Supervised Learning (SSL) making more and further contributions to the community, contrastive SSL, e.g. Contrastive Learning (CL), definitely plays an important role. CL is one of the most frequently adopted SSL methods in a wide range of research areas, especially in computer vision [1–4]. Several marvelous works, e.g. MoCo [1] and SwAV [2], bring state-of-the-art performances which are even competitive with supervised learning methods in downstream tasks. Despite all its achievements, it should be emphasized that CL is built on instance-level discrimination [5], i.e. each sample in dataset is treated as an unique class whose embedding should be different from the rest. This means samples would not be able to learn from intra-class positives other than its own variations (e.g., different views, augmentations), leaving the valuable intra-class correlation in dataset unexploited. However, as pointed out in [6], with positive samples being constructed by data augmentations, current contrastive self-supervised methods are better only at occlusion invariance, compared to supervised methods. On the other hand, Supervised Contrastive Learning [7] proves that contrastive pre-training with ground-truth positives learns representation space with better downstream performance, and the more positive samples used the better performance it gets. Thus, how to utilize intra-class correlation to improve the representation space learned with contrastive learning frameworks is worth investigating.

In a self-supervised manner, one straight-forward intuition to improve the representation space learned with instance-level CL is semantic clustering, i.e. clustering samples with semantically similar embedding so that ideally samples of the same class would be clustered together and different clusters would be sparsely spread in the representation space. Works have been done to explore the effectiveness of utilizing clustering in unsupervised learning. DeepCluster [8] and PCL [9] iteratively perform K-means clustering and representation learning with clustering assignment results. However under the unsupervised condition, the performance of K-means clustering merely depends on the quality of the feature encoder, errors could be accumulated in the iteration process [10,11]. SwAV [2] and OC [10] realize online clustering but do not further utilize cluster assignment results to improve representation learning. Previous works handle clustering results cautiously because cluster assignments without ground-truth guidance could be very tricky and direct enforcement of cluster assignments might backfire.

To remedy clustering error accumulation when exploiting the value of intra-class correlation for CL, this paper proposes an online Contrastive Visual Clustering (CVC) method that can be adopted in arbitrary self-supervised learning framework as a plugin. Our idea comes from the observations from linear probing pre-trained models released

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