Introduction

Attribute-Specific Fashion Retrieval: Search for fashion items in terms of certain fine-grained similar designs instead of identical or overall similar items.

Training Data Generation

We utilize large-scale fashion recognition datasets to conduct metric learning target.

1. Aggregate appropriate fashion attributes and construct different subsets according to certain attributes.
2. Random sample triplets to train our proposed Attribute-Specific Embedding Network (ASEN).

Our proposal: Attribute-Specific Embedding Network

Attribute-aware Spatial Attention: Fashion attributes are typically related to certain regions. We first use an attribute guided spatial attention to attend to relevant parts of clothes.

Attribute-aware Channel Attention: The same regions may still correspond to multiple attributes. We further employ an attribute-guided channel attention to select discriminative dimensions.

Experiments

- Attribute-specific fashion retrieval on FashionAI Dataset
- Attribute-specific fashion retrieval on DARN Dataset
- Attribute-specific fashion retrieval
- The learned attribute-specific embedding space
- The potential for fashion reranking
- Visualization of spatial attention module
- Take-home Message: Our ASEN Network for learning multiple fine-grained similarities.
  - Attention modules are beneficial for fashion variance.
  - For fine-grained similarity consideration, learning multiple attribute-specific embedding spaces is better than a single general embedding space.

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