Fashion Landmark Detection in the Wild

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Motivation

Problem:
• How to achieve accurate fashion image understanding?

Challenges:
• None-rigid deformations
• Larger spatial variances
• Larger appearance variances

Fashion Landmark is Discriminative Representation

Deep Fashion Alignment (DFA)

Stage 1

Stage 2

Stage 3


Dataset

Four benchmarks are developed using the DeepFashion database, including:
• Attribute Prediction
• Consumer-to-shop Clothes Retrieval
• In-shop Clothes Retrieval
• Landmark Detection

Fashion Landmark Detection Benchmark evaluates the performance of fashion landmark detection. It contains:
• 133,816 number of clothes images;
• 8 fashion landmarks (both location and visibility) for each image;
• Each image is also annotated by bounding box, clothing type and variation type.

Visual Results

Performance on different fashion landmarks and different clothing types on different evaluation subsets