

Catogery-Aware Auto-Annotation (CAAA)

Input: image pairs



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Training input: Paired training data (Each pair contains manipulated image and its original image).

Inference input: Paired images that collected from the web (Each pair contains manipulated image and its original image).

Shared Probe Group (SPG)

Classifier

Shared Donor Group (SDG)

Original image

Manipulated image



Difference map



Original image



Manipulated image

Concat



Concatenated image

Semantic Segmentation Model

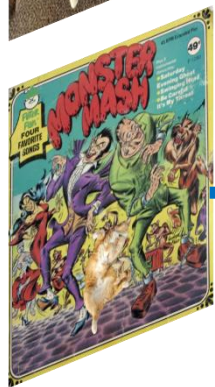


Prediction mask

Difference-Aware Semantic Segmentation



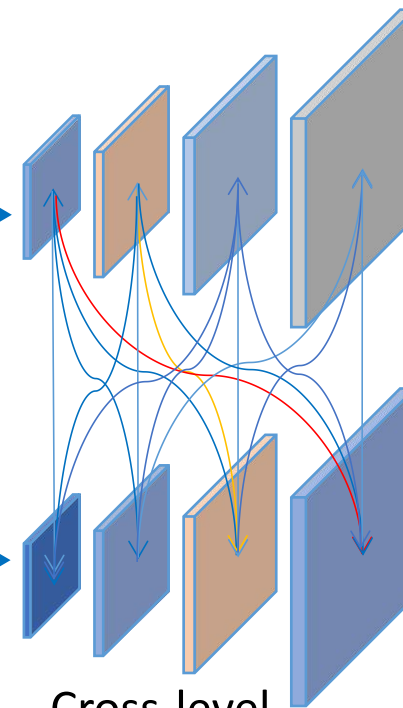
Original image



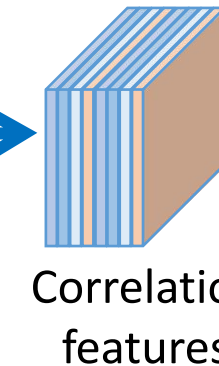
Manipulated image

Backbone & T-D Feature Fusion

Backbone & T-D Feature Fusion



Cross-level feature matching



Correlation features

Channel Reduction & Decoder



Prediction mask

Semantic Aligned Correlation Matching