Implicit Supervision in Vision and Language Tasks

VL Corpus



" group of people protesting in the street ..."



" A man swing the baseball stick and a man in red topping standing ...



" several people in black suits are hosting a press ... "



" athletes are jumping into the pool ... "

Data: Image + Caption or Image Level Tag

VL Representation Learning from image-text pairs

VL Corpus

VL Representation

Fine-tuning and transferring to downstream tasks



VQA

A: " playing basketball. "

Q: "What are they doing?

Image captioning

"The is a man playing basketball ... "

Task-specific Semantic Correspondence Learning

Image/text retrieval

" man playing basketball"

" people are enjoying food"

"few guys are talking"

Person Search by Language

Query: Man is wearing a sweater with black, gray and white







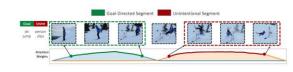




Video Moment Localization



Human Activity Grounding



Textual Grounding Task

Text: I am looking for a boy in blue.



