Learning from Web Data with Self-Organizing Memory Module

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Learning From Web Data

- Web-crawled images usually have two types of noises, label noise and background noise.

![Label noise](image1.png) ![Background noise](image2.png)

Figure 1. Two web images crawled with keyword “dog”. **Left:** Dog food; **Right:** A kid and a dog on the grassland.
Multi-Instance Learning

- We group images and their region proposals from the same category into bags.
- We use the weighted features as the bag-level feature for prediction.
We use the memory module to capture the clustering center of each category. We feed the instances into the memory module to update their weights.
Thanks for watching!

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