Zero-Shot Learning (2)

14

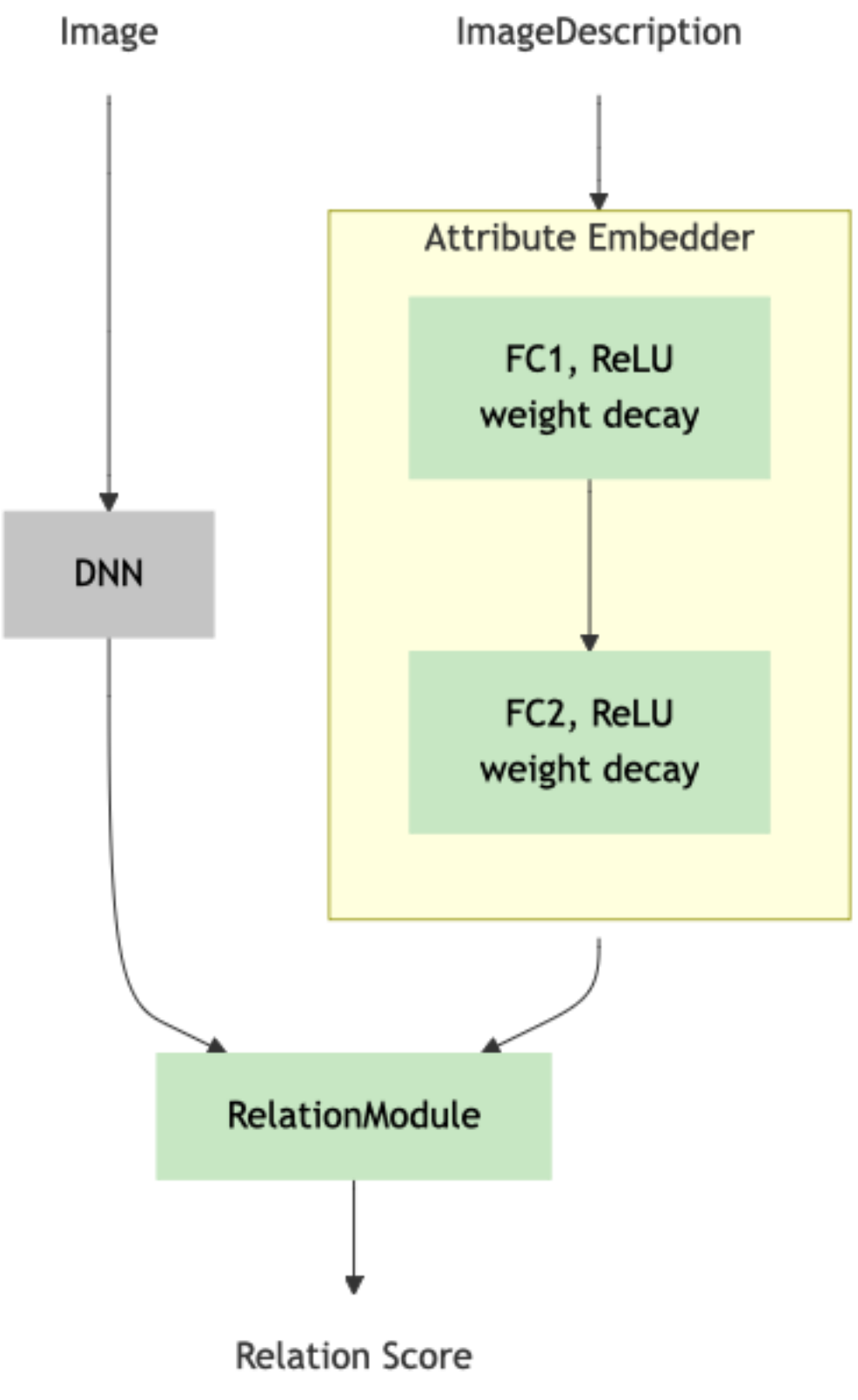
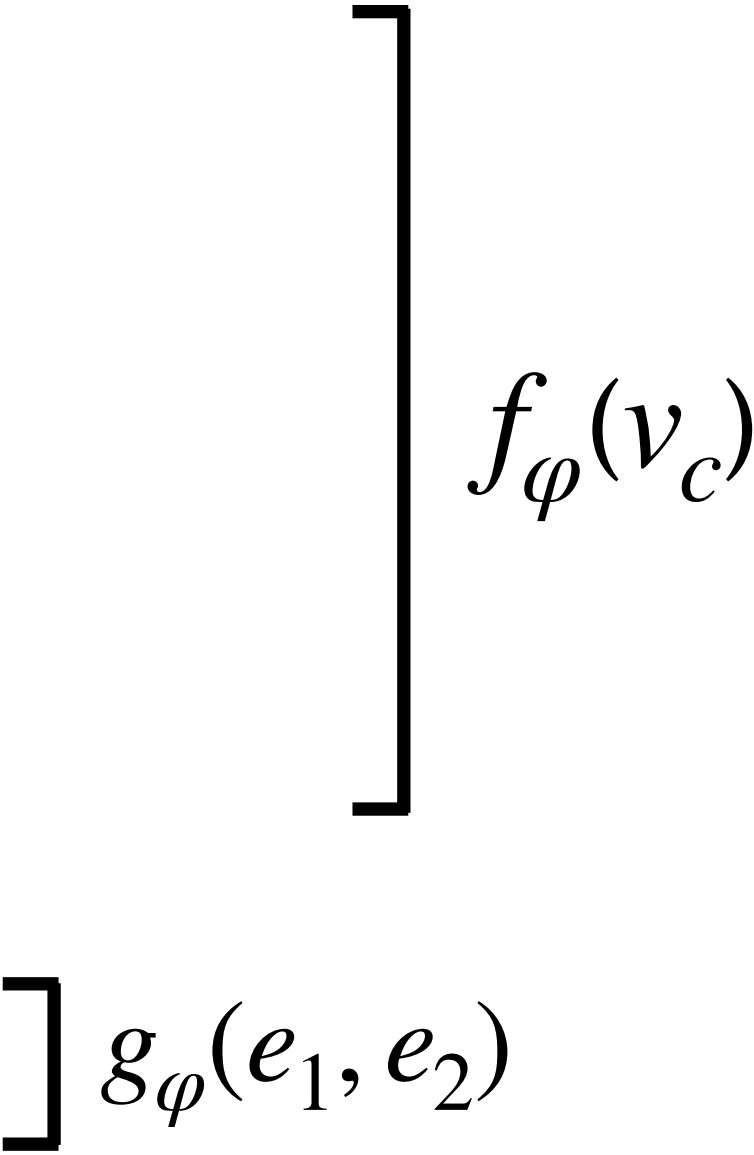


Image
ImageDescription
Attribute Embedder
FC1, ReLU
weight decay
DNN
FC2, ReLU
weight decay
RelationModule
Relation Score

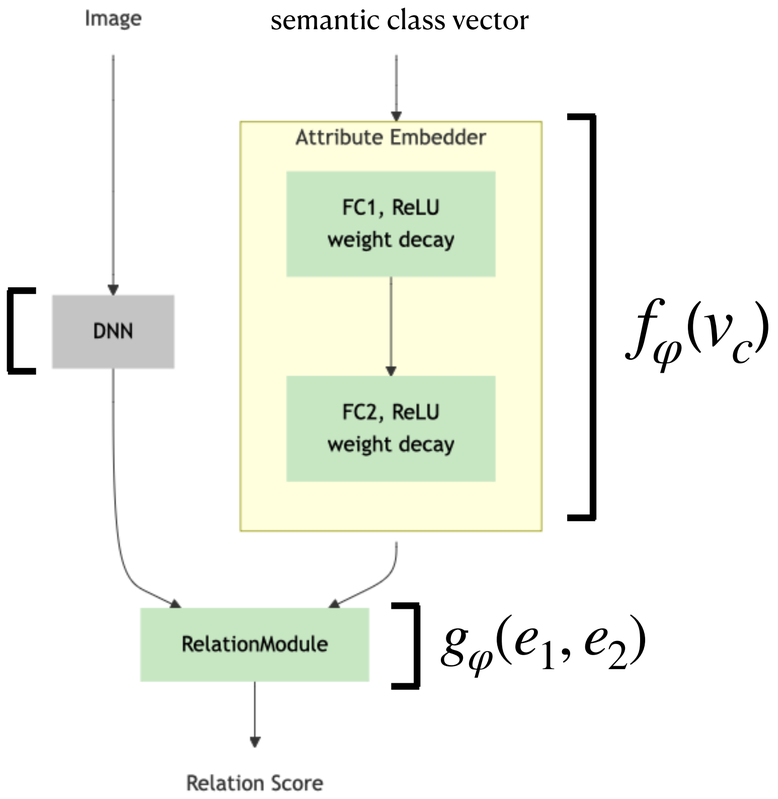

$f_\varphi(v_c)$
$g_\varphi(e_1, e_2)$

Existing network (e.g., Inception or ResNet) pretrained on ImageNet

semantic class vector

Zero-Shot Learning (2)

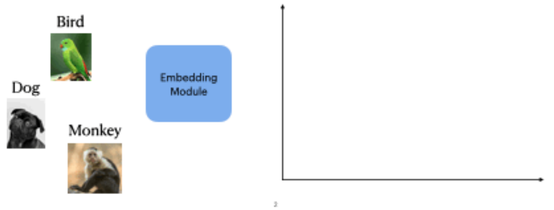
Existing network (e.g., Inception or ResNet) pretrained on ImageNet



Related Work

Metric Learning

T. Mensink, J. Verbeek, F. Perronnin, and G. Csurka. Metric learning for large scale image classification: Generalizing to new classes at near-zero cost. In *ECCV*, 2012



Matching Nets

O. Vinyals, C. Blundell, T. Lillicrap, D. Wierstra, et al. Matching networks for one shot learning. In *NIPS*, 2016.

Prototypical Nets

J. Snell, K. Swersky, and R. S. Zemel. Prototypical networks for few-shot learning. In *NIPS*, 2017.