

TRAINING METHOD AND APPARATUS FOR GRAPH NEURAL NETWORK

ABSTRACT

Implementations of the present specification provide a training method for a graph
5 neural network, and relate to performing multiple rounds of iterative updating on a
graph neural network based on a user relational graph, where any round of the multiple
rounds includes: processing the user relational graph by using a current graph neural
network, to obtain multiple classification prediction vectors corresponding to multiple
user nodes in the user relational graph; allocating a corresponding pseudo classification
10 label to a first quantity of unlabeled nodes in the multiple user nodes based on the
multiple classification prediction vectors; determining, for each of the first quantity of
unlabeled nodes, an information gain generated by training the current graph neural
network by using the unlabeled node; and updating a model parameter in the current
graph neural network according to a classification prediction vector and a real
15 classification label that are corresponding to each labeled node in the multiple user
nodes, and a classification prediction vector, a pseudo classification label, and an
information gain that are corresponding to each unlabeled node.

FIG. 2

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