

METHOD, APPARATUS, AND SYSTEM FOR GENERATING NEURAL NETWORK MODEL, DEVICE, MEDIUM, AND PROGRAM PRODUCT

ABSTRACT

5 Embodiments of the present disclosure provide a method, an apparatus, and a system for
generating a neural network model, a device, a medium, and a program product. The method
includes: A first device sends an indication about a structure of a subnetwork model to a second
device, where the subnetwork model is determined by adjusting a structure of a hypernetwork
model. The first device receives a parameter of the subnetwork model from the second device,
10 where the parameter of the subnetwork model is determined by the second device based on the
indication and the hypernetwork model. The first device trains the subnetwork model based on the
received parameter of the subnetwork model. The first device sends a parameter of the trained
subnetwork model to the second device for the second device to update the hypernetwork model.
In the foregoing manner, an efficient federated learning scheme between a plurality of devices is
15 provided, so that communication costs and device computing costs required in a federated learning
process are further reduced while improving model precision.

FIG. 3