FEATURE MAP ENCODING AND DECODING METHOD AND APPARATUS

ABSTRACT

This application provides a feature map encoding and decoding method and an apparatus, and relates to the field of artificial intelligence (AI)–based data encoding and decoding technologies, and specifically, to the field of neural network–based data encoding and decoding technologies. The feature map decoding method includes: obtaining a bitstream of a to-be-decoded feature map, where the to-be-decoded feature map includes a plurality of feature elements; obtaining a first probability estimation result corresponding to each feature element based on the bitstream, where the first probability estimation result includes a first peak probability; determining a set of first feature elements and a set of second feature elements from the plurality of feature elements based on a first threshold and the first peak probability corresponding to each feature element; and obtaining a decoded feature map based on the set of first feature elements and the set of second feature elements. A decoding manner of each feature element is determined based on the probability estimation result and the first peak probability corresponding to each feature element. This can improve encoding and decoding performance while reducing encoding and decoding complexity.

Figure 5