

ABSTRACT

A neural network system is configured to perform a parallel-processing operation. The neural network system includes a first processor configured to generate
5 a plurality of first outputs by performing a first computation based on a first algorithm on input data, a memory storing a first program configured to determine a computing parameter in an adaptive manner based on at least one of a computing load and a computing capability of the neural network system; and a second processor configured to perform the parallel-processing operation to perform a second
10 computation based on a second algorithm on at least two first outputs from among the plurality of first outputs, based on the computing parameter.

Fig. 5