

ABSTRACT

The present application relates to the technical field of artificial intelligence, and discloses
5 an object detection method and apparatus. A specific embodiment of the method comprises:
performing feature extraction on an input image to obtain a feature matrix, and flattening
the feature matrix in a planar dimension to obtain a Key and Value vector set; performing
first score evaluation on the Key and Value vector set, and extracting a candidate Key and
Value vector set from the Key and Value vector set based on a first score evaluation result;
10 performing second score evaluation on a pre-generated Query vector set, and extracting a
target Query vector set from the Query vector set based on a second score evaluation result;
and executing attention mechanism calculation based on the candidate Key and Value vector
set and the target Query vector set to obtain an object detection result. According to the
embodiment, the amount of attention mechanism calculation is remarkably reduced and the
15 calculation speed is increased, without decreasing the feature resolution and reducing
effective features, thereby achieving the effect of performing object detection in real time at
a vehicle end.

(Fig. 3)