

Online temporal action detection method and device

Abstract

The present application relates to the field of computer vision technology, and discloses an online temporal action detection method, apparatus, and device, and a medium. The online temporal action detection method of the present application includes: obtaining a video online, and extracting an initial feature vector for action detection from the video; constructing a candidate action proposal according to the initial feature vector, and generating a confidence score associated with the candidate action proposal according to the candidate action proposal and a corresponding ground truth action proposal in the video; and selecting a redundant action proposal from the candidate action proposal according to the confidence score, and outputting a generated action proposal. Compared with the prior art, the online temporal action detection method of the present application is more accurate in estimating the confidence score of the candidate action proposal, and can achieve a millisecond-level single-step calculation time without relying on an accelerated operation of a video card. The calculation time is more than four to five times faster than that of a baseline that is an online boundary sensitive network, and a higher recall rate for the ground truth action proposal can be achieved.

(FIG. 4)