

# A Comparative Study on Multi-object Tracking Methods for Sports Events

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*(Pt9)Abstract*—Due to the rapid growth of machine learning technology, there is a need for research to automatically recognize objects and analyze their behavior in various fields, as is the case with sports. Currently, a system for detecting and tracking multiple objects in a sporting event is not accurate enough. Since most of the services depend on the manual operation of an experienced operator, it is necessary to develop a real time tracking technique for detecting the position of an object. In this paper, we propose an algorithm for multi - object tracking in a sporting event by presenting the results of comparing the performance of existing algorithms for multi-object tracking.

*(Pt9)Keyword*—Multi object tracking, Visual tracking, Sports events, Video processing, KCF



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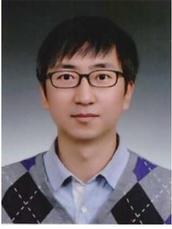
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