

Intisari

ANALISIS KOMPARASI METODE YOLOV8 DAN YOLOV9 DALAM PERMASALAHAN DETEKSI OBJEK PLAYER PADA PERTANDINGAN TIMNAS INDONESIA

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Tim Nasional sepak bola indonesia atau biasa disebut TIMNAS sedang ramai dibicarakan orang dikarenakan berhasilnya TIMNAS memasuki kualifikasi piala dunia 2026. Oleh karena itu terjadilah penelitian ini yang mendeteksi nomor punggung TIMNAS Indonesia. Penelitian yang dilakukan adalah membandingkan YOLOv8 dan YOLOv9 dalam deteksi nomor punggung TIMNAS Indonesia. Penelitian ini berfokus untuk melihat perbedaan hasil kerja dari YOLOv8 dan YOLOv9 pada pendeteksian nomor punggung. Hasil penelitian menunjukkan bahwa pada kasus ini, YOLOv8 memiliki kinerja yang beda tipis dibandingkan YOLOv9 dimana mendapatkan nilai precision 0.804, recall 0.573, dan mAP 0.724. Sedangkan YOLOv9 mendapatkan nilai precision di 0.738, recall 0.681, mAP 0.775.

Kata Kunci: timnas, sepak bola, deteksi objek, YOLO, YOLOv8, YOLOv9, nomor punggung, piala dunia

Abstract

COMPARATIVE ANALYSIS OF YOLOV8 AND YOLOV9 METHODS IN THE PROBLEM OF PLAYER OBJECT DETECTION IN THE INDONESIAN NATIONAL TEAM MATCH

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The Indonesian national football team, commonly known as TIMNAS, is currently the talk of the town due to its success in qualifying for the 2026 World Cup. This prompted this study to detect the jersey numbers of the Indonesian national team. The research conducted compares YOLOv8 and YOLOv9 in detecting the jersey numbers of the Indonesian national team. This study focuses on examining the differences in the performance of YOLOv8 and YOLOv9 in jersey number detection. The results of the study show that in this case, YOLOv8 has a slightly different performance compared to YOLOv9, with a precision value of 0.804, recall of 0.573, and mAP of 0.724. Meanwhile, YOLOv9 obtained a precision value of 0.738, recall of 0.681, and mAP of 0.775.

Keywords: national team, soccer, object detection, YOLO, YOLOv8, YOLOv9, jersey number, World Cup