

Building a model to detect traffic participants not wearing helmets using the YOLO model

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Abstract: In the context of increasing attention to traffic safety, this topic focuses on building an automatic detection system to identify the location of traffic participants not wearing helmets. The goal is to develop a YOLO-based model to process video data and recognize objects relevant to this scenario. Through the research process, the system is continuously tested and improved to achieve the highest performance. The results of this topic not only contribute to raising awareness of traffic law compliance but also provide the information technology industry with a practical solution in the field of traffic safety monitoring.

Keywords: YOLO, object detection, traffic safety, YOLO model, detection system