

MatLab Application Development of Accurate Detection and Instant Scoring System for Shooting Drills

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Abstract. The objective of this research was to make it easy to calculate the score on shooting drills, to help replace operators, to help evaluate the athlete's performance in shooting practice, and to avoid cheating in shooting calculations. At this time in doing the calculations score on practice shooting still use score calculation manually. In addition to requiring time and effort is wasted so in the shoot practice and needed a long time when the calculation of shot scores. Image processing method used is the edge detection method, include image restoration, image enhancement, data compaction, image analysis, and image reconstruction. By using some method on image processing to detect and assess on the target into helping operators in the field. The result of this study is that the image segmentation using multiple functions in MatLab can avoid the shadow effects on image. On these systems, the image itself is limited in the form of a circular firing target thickness 0.1 mm circles line up to 0.22 mm and the diameter of 154 mm. His own bullet-sized diameter 4.5 mm. Percentage error rates on application own 4 % and the percentage accuracy detection 98.01% for 100 data. It can be concluded that this tool is capable of reading the image of a bullet trace in the form of a circle, and to reduce the impact of shadows on the image of the bullet.

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<http://dp3m.unikom.ac.id/penelitian/view/matlab-application.326.html>