Review of: "Development of a Mobile Application for Flag Identification based on Artificial Neural Networks"

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Potential competing interests: No potential competing interests to declare.

This paper describes how to develop a national flag recognition app.

The setting of the work is informative rather than referring to a real research work. First of all, the needs that this app should satisfy are not clearly framed. That is to say, it is not explained in what context someone might need to recognize a flag via an app. Without this clarification, the research appears as a pure exercise, in which already consolidated techniques and methodologies are applied and to which nothing is added.

Secondly, the literature review does not appear to be properly focused on the topic of the work. It is beyond the scope of any paper to comprehensively describe all of the literature on deep learning, so attention should be paid to papers describing the techniques used in the research and papers that have addressed similar issues. Since it is difficult to find works on flag recognition, and not without reason, the attention could turn to applications in which objects have been attempted to be identified within a scenario, selecting those which have adopted approaches similar to the one proposed here.

Third, the description is too general as regards the actual application, while then it provides useless details, such as the commands with which some functions have been called. It is not clarified how the training set is extended, nor how the validation set was set up. Without this information it is impossible for anyone reading the article to retrace the steps followed by the authors, which should be the main objective of a scientific paper. The number of individual classes is far below the standards for this type of problem, nor is it worth saying that the performance in the test phase is good: if the characteristics of the training and test sets are not declared, the results are not significant.

In summary, I believe that the way it is written, the paper is more suitable for presenting the app from a commercial point of view, rather than being published in a scientific journal