

Review of: "An Intelligent Analytics for People Detection Using Deep Learning"

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Potential competing interests: No potential competing interests to declare.

The paper presents a comparison between three approaches to deep learning (CNN, YOLO, and Faster region CNN) to detect people's behaviour in video images. Although it is an interesting contribution to get a general idea of one of the applications of deep learning, the paper, as it is, does not provide a significant research contribution, since it does not propose any novelty other than a general comparison.

Some of the main weaknesses of the paper are as follows:

- 1.- There is a misuse of the concepts of people detection and people behaviour detection, which are significantly different problems. A clear distinction between the two problems should be stated, and appropriate literature analyzed in the literature section, particularly in the problem of people behaviour detection.
- 2.- The methodological approach is very superficially described. More details about the method followed to perform the experiments are important for the work to be replicated by other researchers. Some open issues are: What data was used? How was the data obtained and prepared? How much data was used? How were the algorithms executed? What hardware and software characteristics were used? How were the deep learning approaches trained? among other details.
- 3.- In the results section, more specific result data should be provided. Table 1 is very general and ambiguous, not appropriate for a technical paper; more specific results such as specific performance measures of each algorithm could be provided. The authors comment about detecting normal and abnormal behaviour, but they do not provide a description of what normal and abnormal behaviour means within their context.
- 4.- The title of the paper doesn't entirely correspond with the content, since the title looks as if the authors were proposing an intelligent analytics approach for detecting people using deep learning, but they are only comparing three existing deep learning approaches applying them to classify human behaviour.