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

Syed Rameez Naqvi

Potential competing interests: No potential competing interests to declare.

Summary: The author applies CNNs, YOLO, and Faster RCNN to the problem of people's behavior detection and carries out a comparison in terms of accuracy, speed, and complexity. The author arrives at the conclusion that for high accuracy, CNN or Faster RCNN proves to be a good choice. If speed is crucial, however, then YOLO will prove to be a better choice.

Reviewer's opinion: Unfortunately, what the author managed to conclude following this research work was known a priori. This work, while it may prove to be a good learning exercise for undergraduate students in computer science/engineering, cannot be considered novel research work that would deserve publication.

Major concerns:

1) There is no scientific contribution in this work.
2) The introduction section does not motivate the need for yet another work on this topic.
3) The work isn't supported by enough experimental/simulation results. The comparison table doesn't even provide values. Simply stating ‘high’ or ‘low’ accuracy isn't enough.
4) The author forgot to compare their work with those cited in the manuscript.
5) English needs proofreading and thorough revision.
6) The images look bad. Figure 2, e.g., is squeezed, while Figure 3 is unusual with poor readability of text.

Suggestions:

If I were to publish an article on such an exercise, I would make sure that it had some novelty, e.g., a simple feature selection methodology augmented with the chosen model, or an ensemble of classifiers to see if it resulted in improved accuracy. Then, I would carry out detailed quantitative and statistical analyses of the proposed method and compare it with a few benchmarks. To be honest, even this would be hard to publish in Q1/Q2 journals these days, but at least it would be something for the reviewers to review and comment on.

Overall comment:

While I encourage the author to use this work as a stepping stone, I cannot recommend it for publication in its current form.