



Delft University of Technology

Rethinking the objectives of computer vision systems

Strafforello, O.

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Propositions

accompanying the dissertation

Rethinking the objectives of computer vision systems

by

Ombretta STRAFFORELLO

1. Ground truth in machine learning does not exist.
2. The videos in current long-term action recognition datasets can be classified by looking at a single, second-long video segment. (This thesis)
3. Current datasets for long-term action recognition do not encourage learning long-term reasoning in computer vision models, but rather the use of unintended shortcuts. (This thesis)
4. Human judgement of the quality of object detectors by computer visions techniques cannot be quantified. (This thesis)
5. Trust in assistive object detectors can be enhanced by visualising the detections through center dots, instead of bounding boxes.
6. If an exam question can be solved using shortcuts, the average student will learn shortcuts instead of the intended knowledge, regardless of the difficulty of the question.
7. While aesthetic perception in art is profoundly subjective, ugliness is more subjective than beauty.
8. Intensive animal farming should be criminalised.
9. Replacing oral sessions in conferences with sport activities will lead to healthier researchers and an increase of cross-university collaborations.
10. There exists a positive correlation between the success of a research lab and the percentage of visitors of their coffee machine.

These propositions are regarded as opposable and defendable, and have been approved as such by the promotor Prof. dr. ir. M.J.T. Reinders and Dr. J.C. van Gemert.