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Generate one heat map for each one of the four extreme points as well as one for the center

Test all possible combinations of the points of maxima in the for extreme point feature maps and retain those whose geometric centre has a score higher than a threshold in the corresponding feature map

Existing feature point detection method from human pose estimation

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heuristics used to deal with the so called ghost boxes resulting from multiple nearby objects getting grouped together into one box and objects with axis aligned edges leading to multiple low confidence extreme points along these edges

Performance seems comparable to other single-stage detectors