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Adds a re-ID embedding feature branch to the center net detector

doesn't propose any novel components, rather uses existing stuff from literature after hypothesizing the reasons for the failure of existing joint detection MOT methods and proposing tricks as solutions

128 dimensional embedding rather than the usual 512 supposedly more easy to train with the limited MOT training data available

The usual post inference heuristics still exists to convert the network output into trajectories including some sort of Kalman filter for motion prediction and some sort of KCF style appearance update not really explained properly

Trained on 6 different data sets which might largely explain the reason why it outperforms most other methods on MOT challenge as improvement in the detections themselves given the detection dependent quality of existing MOT methods

No information provided about the quality of the detections themselves and how they compare with the public detections one MOT

treats the embedding generation process as classification by apparently considering each unique object as a separate class although this thing is not properly explained