

**PhD**

**Flow-Guided Feature Aggregation for Video Object Detection ax1708 iccv17**

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- feature propagation from high response frames to nearby ones to make up for poor response frames
- motion guided spatial warping of feature maps for propagation
- feature aggregation for combining multiple feature maps being propagated from nearby frames
- weighted average of feature maps for each spatial location though same weight for all channels
- weight is proportional to the similarity of a feature map to that frame's own feature map - this seems a bit dodgy as the purpose of this aggregation is to handle poor quality features yet more weight is being given to features that are more similar to the possibly poor quality original features and thus likely to be of poor quality themselves;