

Recursive Least-Squares Estimator-Aided Online Learning for Visual Tracking Supplementary Material

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Abstract

This is a supplementary material for our CVPR oral paper “Recursive Least-Squares Estimator-Aided Online Learning for Visual Tracking”. Due to spatial constraints in the main paper, some more detailed experimental results on the entire UAV123 dataset are moved to this supporting document.

1. More results on UAV123

Since we didn't rely on other sophisticated techniques for performance improvement, the *AUC* gains in case of other attributes in UAV123 are thus limited as shown in Figure S1. It is noteworthy that the SO attribute means that there are objects of similar shape or same type near the target and the most SO circumstances encountered in the sequences are like the ones in sequence *group3_2* where the distractors with different colors can be clearly separated from the target. So the challenges to successful tracking in the sequences with SO attribute mainly come from the other attributes. It is thus understandable that the *AUC* gains in case of SO attribute are also limited despite the improved discrimination power.

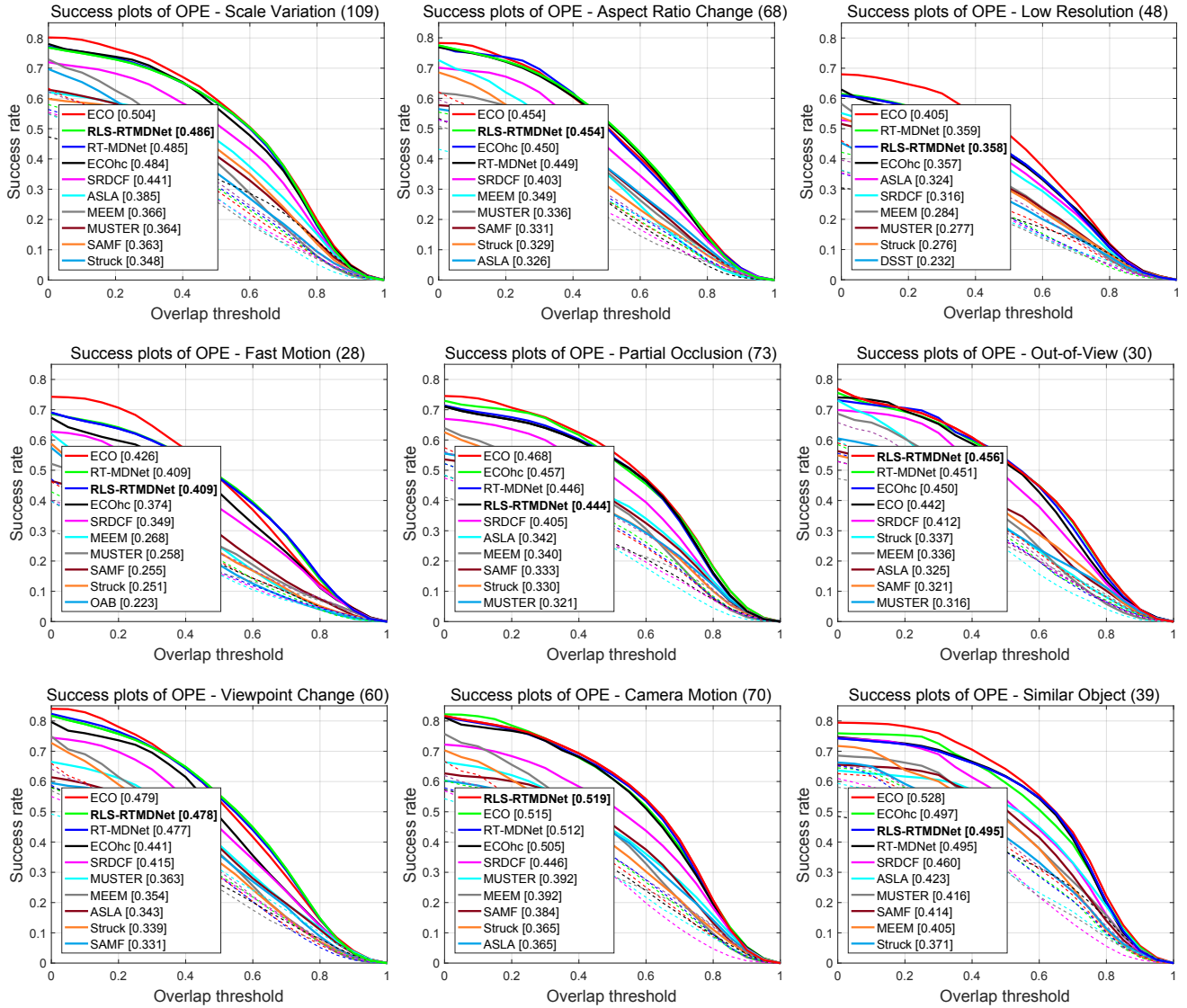


Figure S1: Success plots for UAV123 in terms of other attributes. The legends show the AUC scores. Best viewed in color.