## GraphTinker: Outlier Rejection and Inlier Injection for Pose Graph SLAM (Supplementary Results)

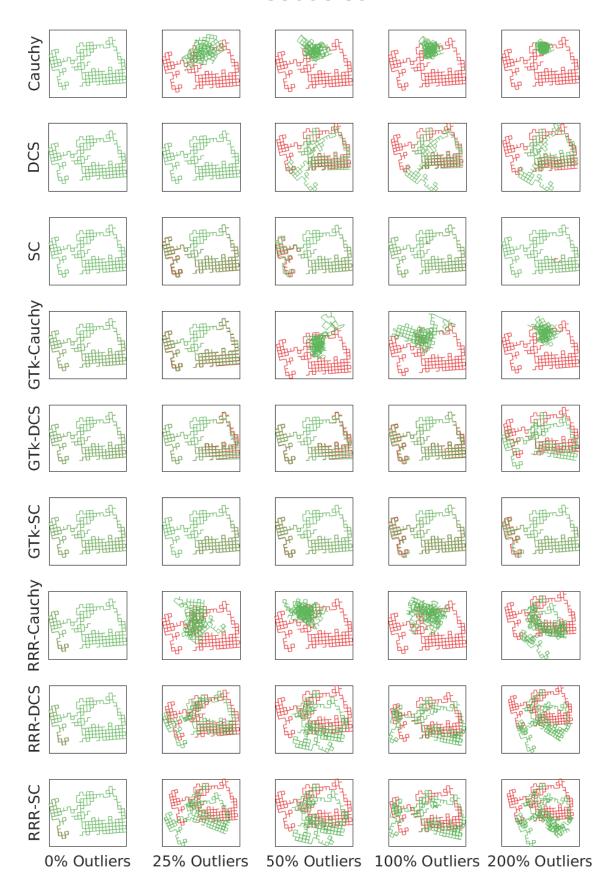
Linhai Xie, Sen Wang, Andrew Markham and Niki Trigoni \* February 26, 2017

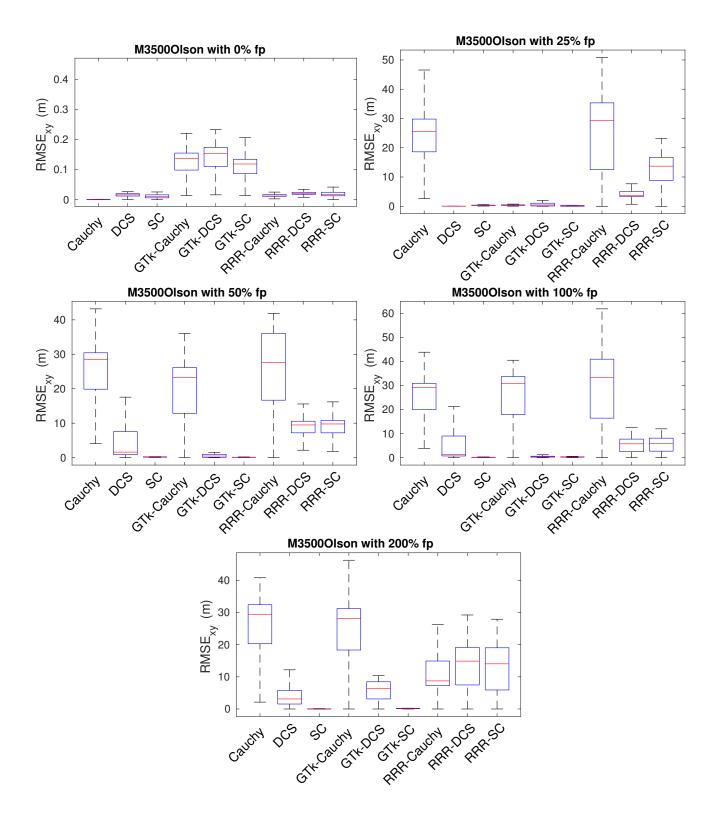
In this document, we give extra experimental results on the eight public datasets we used (M3500Olson, MIT-Killian-Court, city10000, Intel, ringCity, Bicocca, Bovisa04, Bovisa06) for the paper 'GraphTinker: Outlier Rejection and Inlier Injection for Pose Graph SLAM' submitted to IROS 2017.

We generate various numbers of outliers on each dataset and compare the robustness and errors among nine different combinations of two middle layers (proposed GTk and RRR) and three robust back-end systems (Cauchy, Dynamic Covariance Scaling (DCS) and Switchable Constraint (SC)) to evaluate the effectiveness of the proposed GTk algorithm. There are 360 pose graph results in total.

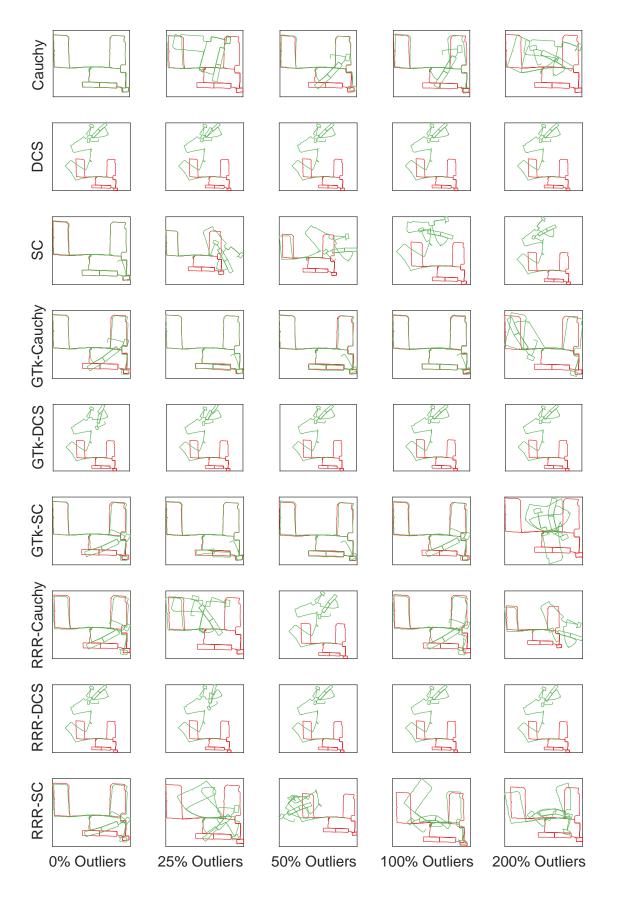
<sup>\*</sup>The authors are with Department of Computer Science, University of Oxford, Oxford OX1 3QD, United Kingdom {firstname.lastname} @cs.ox.ac.uk

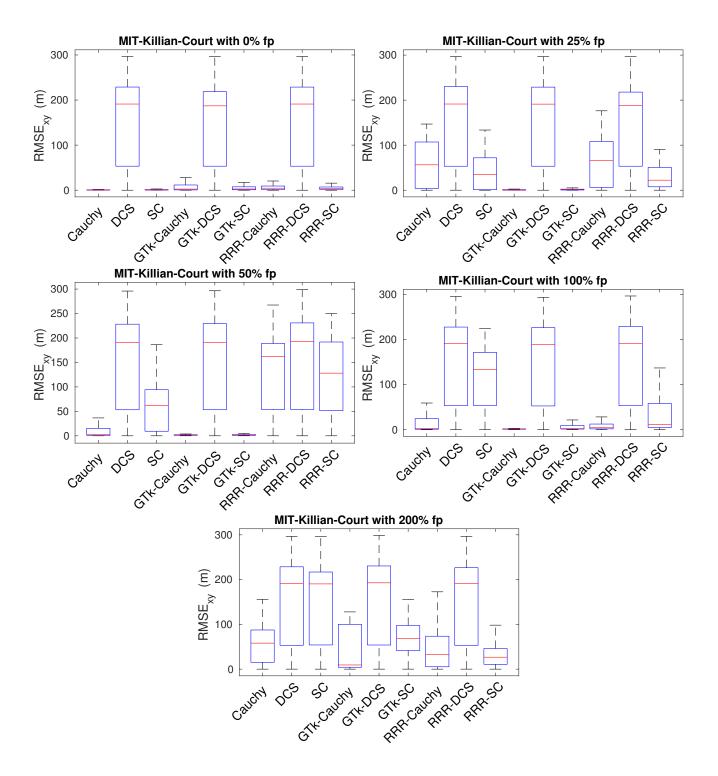
#### M3500Olson





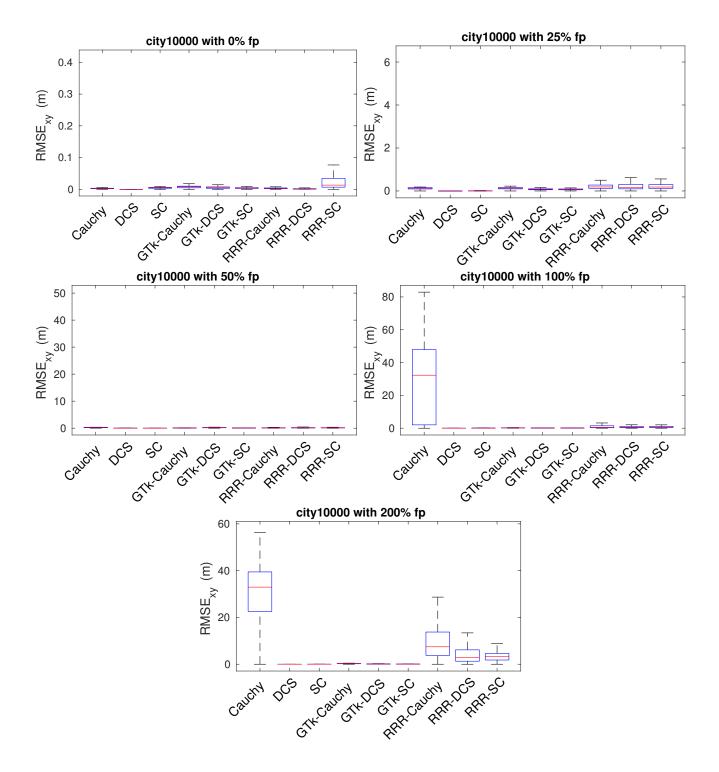
#### **MIT-Killian-Court**



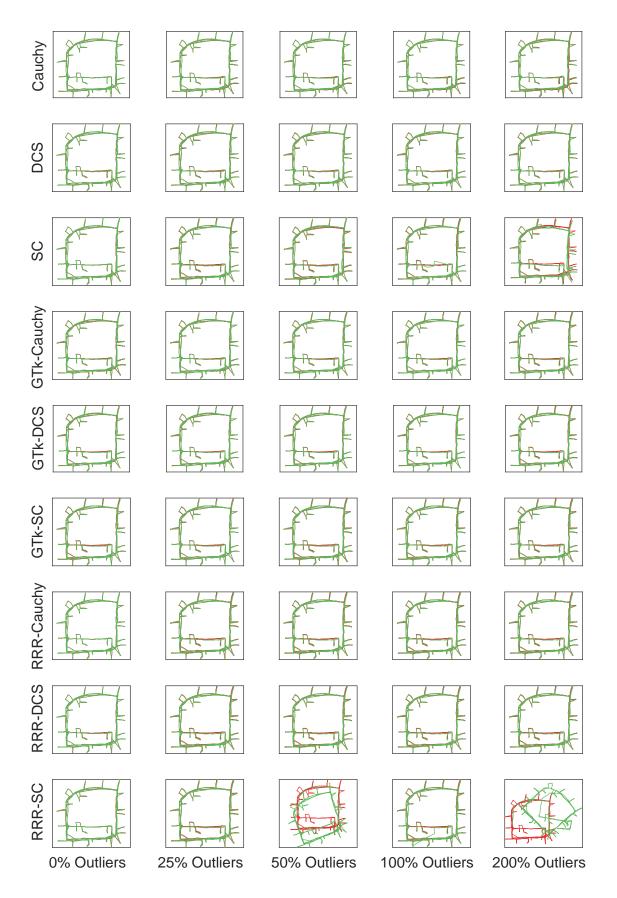


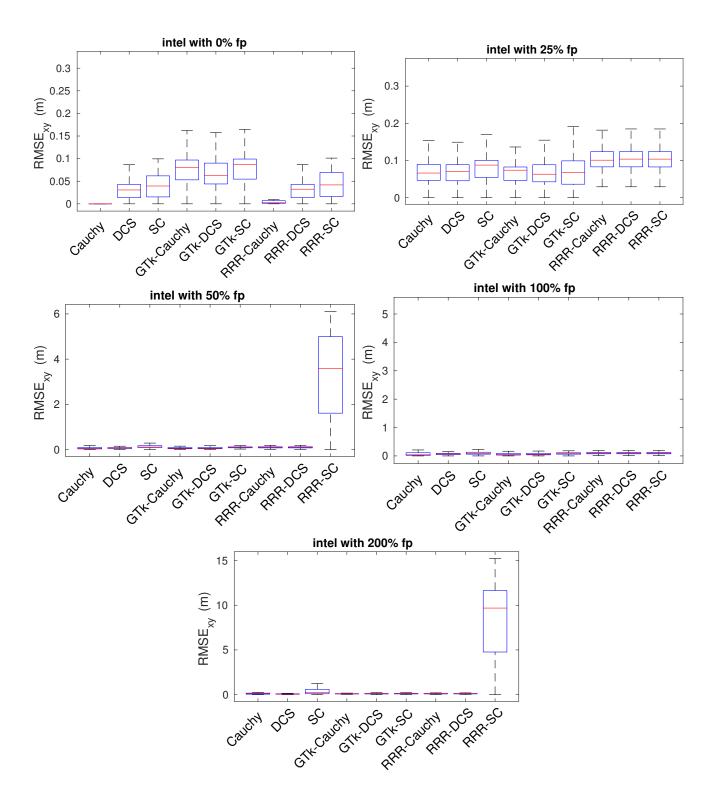
# city10000



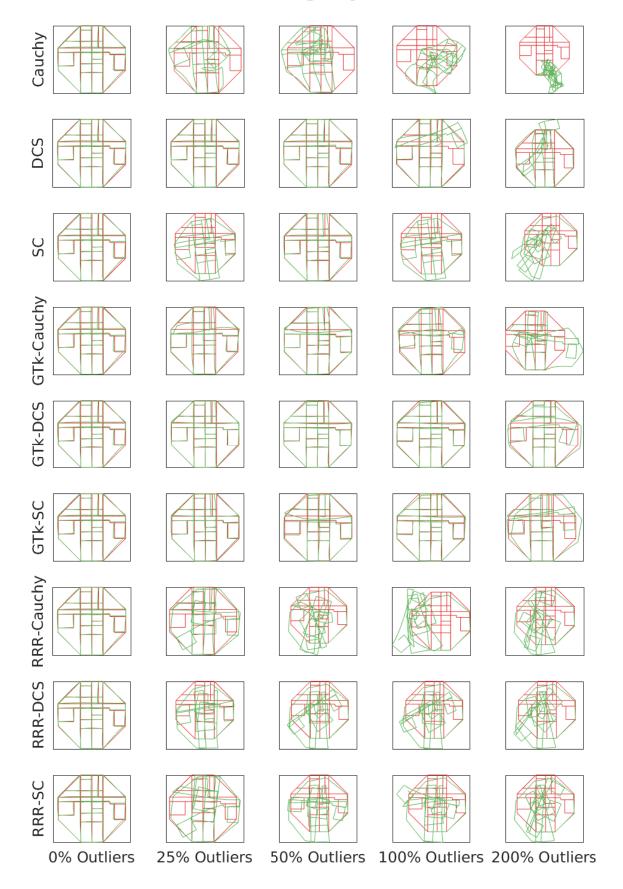


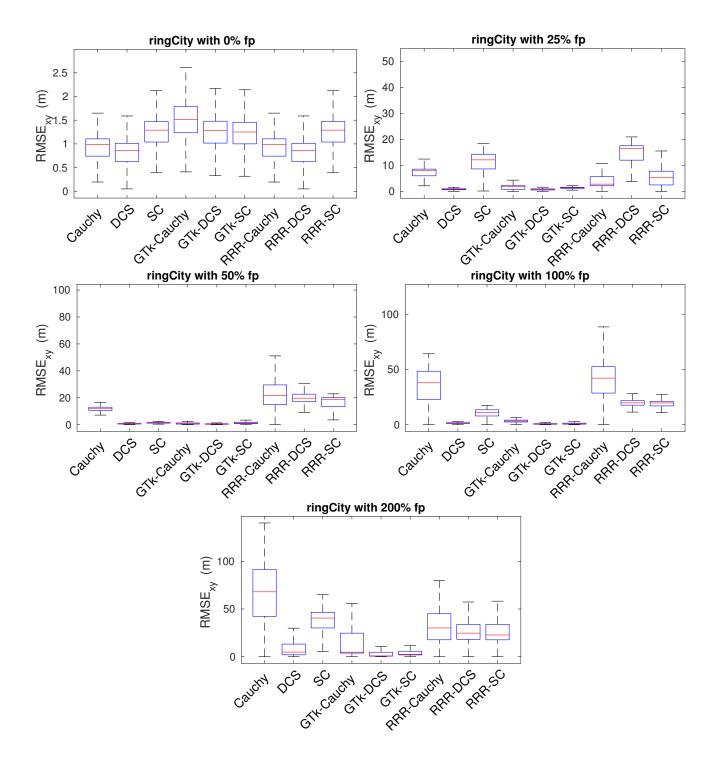
## intel



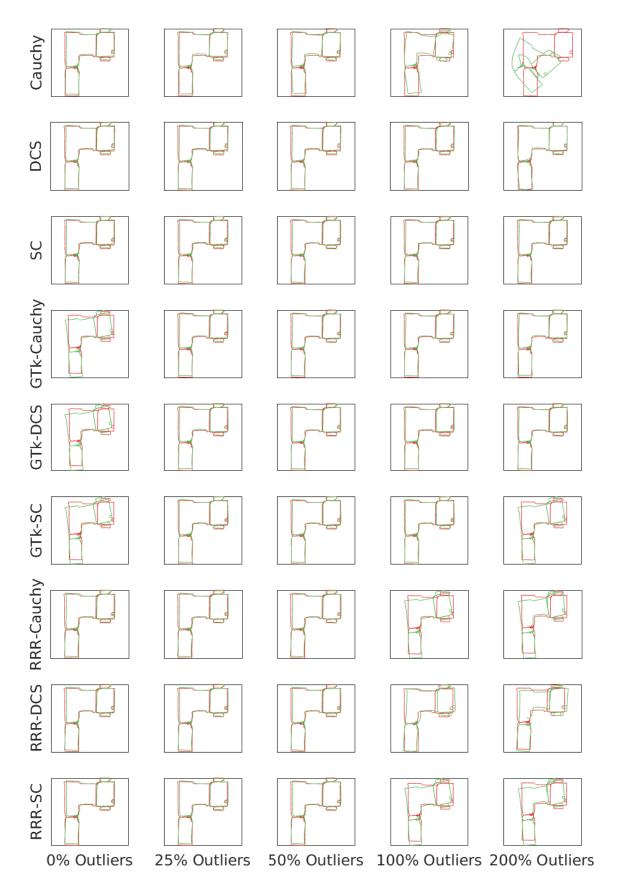


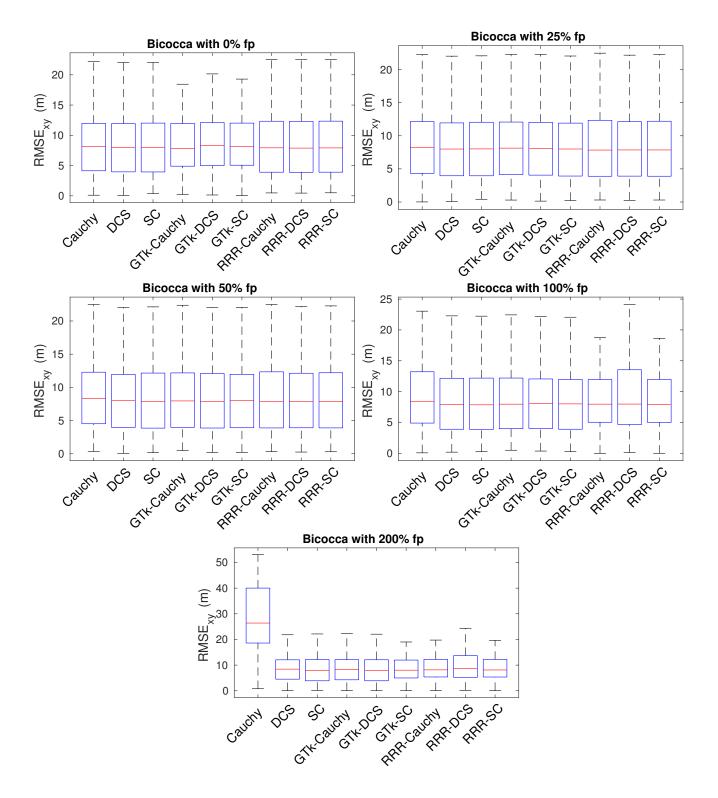
# ringCity



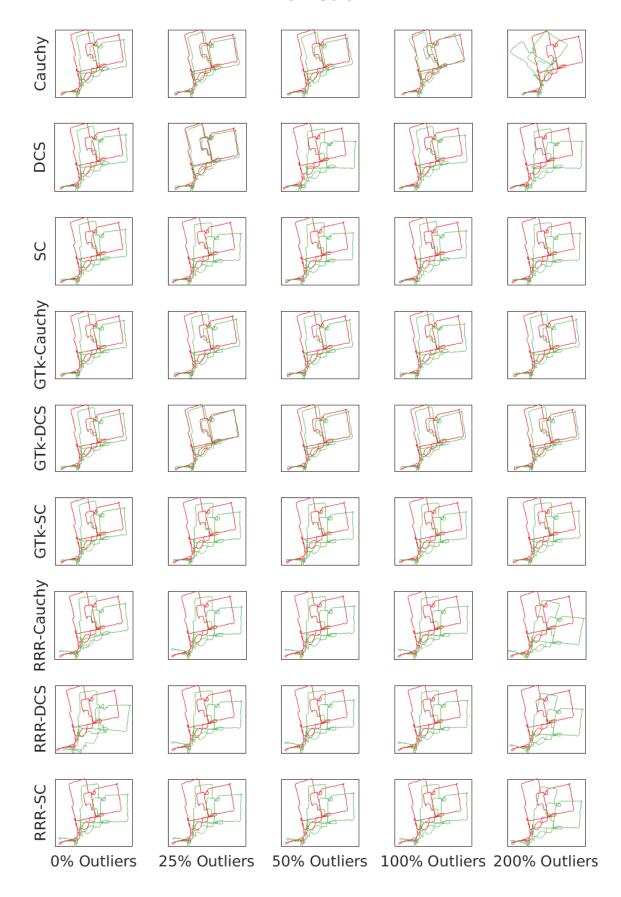


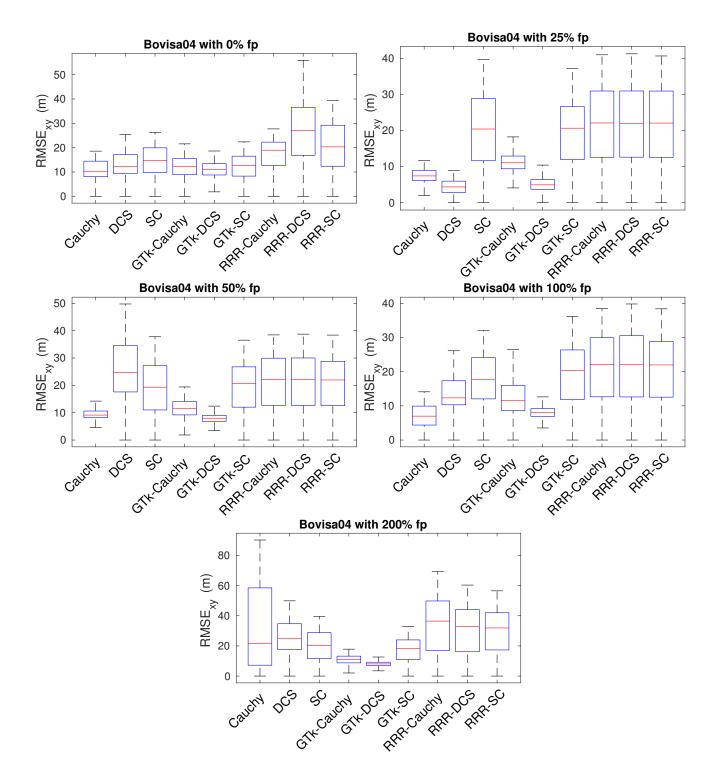
### Bicocca





### **Bovisa04**





## **Bovisa06**

