An Adaptive Tracking Algorithm for Multiple Maneuvering Targets

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ABSTRACT
In the thesis, most tracking situations are investigated. Data association algorithm combined with an adaptive tracking is used to perform the tracking system, considered both tracking environment factors and kinematic quantities. When target an adaptive procedure and maneuvering detection algorithm are developed to solve these problems. Simulations results show that this algorithm can greatly improve the tracking accuracy. Such achievement will offer a lot of contributions for the navigation systems.

Keywords: Data Association Technique; Adaptive Procedure; Detection Algorithm.