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A Novel Morphin-based Obstacle Avoidance Control Algorithm for USVs

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Abstract

This is an effort of employing good obstacle avoidance algorithms for unmanned surface vehicles (USV) which are already developed for unmanned ground vehicles (UGV). Previously developed Morphin algorithm is utilized for the obstacle avoidance of UGV. Simulations were carried out using MatLab to prove the validity of the algorithms. Approach towards the results and results are presented. Other USV developers can employ these algorithms for their developments.