

MOVABLE OBJECT PERCEPTION SYSTEM

ABSTRACT OF THE DISCLOSURE

A movable object perception system is provided and includes a modeler, a tracker, an estimator and a trajectory module. The modeler receives a perception source to detect at least one moving object based on the perception source. The tracker tracks the at least one moving object marked based on the perception source by the modeler to obtain a tracking result of the at least one moving object. The estimator estimates a distance, a speed an orientation and a width of the at least one moving object based on the tracking result of the at least one moving object. The trajectory module receives the distance, the speed, the orientation and the width of the at least one moving object, and performs a motion trajectory prediction and a motion flow integration, so as to obtain a motion region with distance, speed orientation and width indications of the at least one moving object.

Fig. 1