

ABSTRACT

METHOD AND DEVICE FOR ESTIMATING THE TRAJECTORY OF A
MOVING OBJECT

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Method for estimating a trajectory of a first object by means of a moving platform equipped with means for measuring at least one angle between the first object and the platform according to a given direction comprising at least the following steps:

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- determining a set of points corresponding to the trajectory of the platform for a given time interval,
- acquiring a set of values of angles over the same time interval,
- defining the complexity c_g of the trajectory of the platform by
15 calculating the error existing between the points of the trajectory partitioned in a plurality of groups and points of the trajectory obtained by extrapolation,
- determining, for the same time interval, the complexity c_p of the trajectory of the object from the estimated complexity of the trajectory of the platform and the error calculated between values of angles
20 measured and grouped together in K groups and values of angles obtained by extrapolation of the partitions,
- comparing the value of the complexity of the platform and, if the value of the complexity of the platform is greater than that of the object, then
25 calculating the trajectory of the object, otherwise, transmitting a signal or an information item to adjust the trajectory of the platform.

Figure 3 to be published

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