

ABSTRACT

The embodiments of the invention provide a method for determining a spatial coverage of a multi-sensor detection system comprising a plurality of sensors, said plurality of sensors being borne by carrying structures moving through a given geographic region, at least some of the carrying structures being mobile, the method being characterized in that it comprises the steps of:

- determining (201) a set of parameters representing said geographic region and comprising environmental data, data relating to said carrying structures and data relating to said sensors;
- iteratively computing (203) the detection probabilities of said plurality of sensors in the geographic region on the basis of at least some of said parameters;
- determining (205) a three-dimensional representation of the spatial coverage of the detection system for the plurality of sensors;
- determining (207) 3D shadow zones of said geographic region, in which zones said detection probability is lower than at least one given threshold;
- selecting (209) the shadow zones located in at least one predefined security zone of the system.

Figure for the abstract: Fig.2