

Optimized air traffic management for unmanned aerial vehicles

ABSTRACT

The invention relates to a computer-implemented method comprising: receiving a trajectory request from an unmanned aerial vehicle, said request comprising: an initial point; a final point; at least one manoeuvrability parameter of the unmanned aerial vehicle; computing a plurality of optimized 4D trajectories between the initial point and the final point, complying with the at least one manoeuvrability parameter, and avoiding obstacles in an airspace, each 4D trajectory being associated with a performance score; a flight simulator simulating said plurality of 4D trajectories in order of decreasing performance score, until a 4D trajectory is considered to be flyable by the flight simulator; sending said trajectory considered to be flyable by the flight simulator to said unmanned aerial vehicle.

Figure for the abstract: Fig. 4.