

AIRSIDE CONSTRUCTION EQUIPMENT SCHEDULING METHOD BASED ON HIGH-RESOLUTION REMOTE SENSING, BEIDOU AND ELECTRONIC FENCE

ABSTRACT OF THE DISCLOSURE

The present invention belongs to the technical field of airside construction data identification. Disclosed are an airside construction equipment scheduling method based on high-resolution remote sensing, Beidou and an electronic fence. The method comprises: according to received airspace information under normal and emergency conditions, a system background delineating an electronic fence area within an airside construction area; the system background marking near aircraft runway centerline points and far aircraft runway centerline points; calculating a normal construction height of airside construction equipment; calculating an emergency construction height of the airside construction equipment; and superimposing the electronic fence area on a high-resolution image base map of an entire airport, and determining whether the airside construction equipment performs construction within a safe activity area and at a safe height. In the present invention, for construction equipment that does not conform to an operation space, timely alerts can be issued to inform an operator to adjust the position and construction height of the construction equipment in a timely manner. In the electronic fence area superimposed on a high-resolution remote sensing image, a manager can be assisted in visualizing the range of an electronic fence in an actual scene, thereby facilitating the manager in making decisions.

FIG.1