

Veille NAE 24 mai 2018

METHOD FOR LANDING AN UNMANNED AERIAL VEHICLE

23/05/2018 - worldwide.espacenet.com

Methods and apparatus are provided for launching and landing unmanned aerial vehicles (UAVs) including multi-rotor aircrafts. The methods and apparatus disclosed herein utilize positional change of the UAV, visual signal, or other means to effect the launch or landing. The methods and apparatus disclosed herein are user friendly, particularly to amateur UAV users lacking practice of operating a UAV.

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ELECTRONIC DEVICE AND METHOD FOR CONTROLLING UNMANNED AERIAL VEHICLE

23/05/2018 - worldwide.espacenet.com

A method of an electronic device for controlling an unmanned aerial vehicle (UAV) is provided, The method includes receiving, from the UAV related to the electronic device, a signal including information regarding at least one parameter for determining an area where the UAV is capable of flying, determining the area where the UAV is capable of flying based on the information regarding the at least one parameter, and displaying information indicating the determined area where the UAV is capable of flying by superimposing the same on information indicating a region where the UAV is located. Other embodiments may be possible.

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VI-RPE: Visual-Inertial Relative Pose Estimation for Aerial Vehicles

18/05/2018 - ieeexplore.ieee.org

With a large body of literature dedicated to ego-motion estimation and perception of a robot's workspace, the Robotics community has seen some impressive advances in self-localization and mapping, however, we are still far from general applicability of such approaches in real scenarios. Driven by the need for portable and low-cost solutions to relative pose estimation between Unmanned Aerial Vehicles (UAVs), in this work we propose a new framework to track a master UAV in real-time, carrying a k

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An Integrated Skeleton Extraction and Pruning Method for Spatial Recognition of Maize Seedlings in MGv and UAV Remote Images

18/05/2018 - ieeexplore.ieee.org

Methods to obtain accurate phenotypic data of the seedling stage of maize are receiving ever-increasing research attention because such data are very important for crop growth and for estimating crop yield. To obtain such data, we propose herein an algorithm that uses computer vision to accurately recognize maize seedlings from a digital image. First, the red-green-blue (RGB) images acquired by a manned ground vehicle (MGV) and an unmanned aerial vehicle (UAV) are transformed into grayscale images

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Polar codes for cooperative unmanned aerial vehicle communication networks

18/05/2018 - ieeexplore.ieee.org

il y a 4 jours - ... In order to improve the reliability of the system, the input-based space-time block code (STBC) and cooperative network are quite good solutions, both of them can achieve time and space diversity at a time. If the transmitter is ...

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