

Title (en)

METHOD AND SYSTEM FOR GEOMETRIC CHARACTERISATION OF FIRES

Title (de)

VERFAHREN UND SYSTEM ZUR GEOMETRISCHEN CHARAKTERISIERUNG VON BRÄNDEN

Title (fr)

PROCEDE ET SYSTEME DE CARACTERISATION GEOMETRIQUE DE FEUX

Publication

**EP 4169005 A1 20230426 (FR)**

Application

**EP 21733124 A 20210618**

Priority

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Abstract (en)

[origin: WO2021255214A1] The embodiments of the invention provide a method for characterising fires occurring in a geographic area (110) covered by an imaging device (101), the imaging device being mobile, geolocated in a global reference frame (210) and providing multimodal stereoscopic images, the method being characterised in that it comprises the following steps: detecting fire pixels; generating a first three-dimensional (3D) point cloud; transforming the first cloud into a second cloud geolocated in the global reference frame (210); estimating, from the second 3D point cloud, geometric data of a local plane (230) on which the fire (111) occurs; transposing the second cloud into a local measurement reference frame (250) in order to provide a third 3D point cloud; estimating, from the third 3D point cloud, a first plurality of local geometric characteristics of the fire.

IPC 8 full level

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