

Title (en)

DISTANCE-ESTIMATION METHOD FOR A TRAVELLING OBJECT SUBJECTED TO DYNAMIC PATH CONSTRAINTS

Title (de)

ABSTANDSSCHÄTZVERFAHREN FÜR EIN DYNAMISCHEN WEGNEBENBEDINGUNGEN UNTERLIEGENDES BEWEGLICHES OBJEKT

Title (fr)

PROCEDE D'ESTIMATION DE DISTANCE POUR UN MOBILE SOUMIS A DES CONTRAINTES DYNAMIQUES DE PARCOURS

Publication

**EP 1664677 A1 20060607 (FR)**

Application

**EP 04766733 A 20040908**

Priority

- EP 2004052078 W 20040908
- FR 0311320 A 20030926

Abstract (en)

[origin: WO2005031262A1] The invention relates to a method whereby a terrain elevation database can be used to calculate a distance map of the points accessible to a travelling object that is subjected to dynamic path constraints which change over time, e.g. an aircraft having an imposed vertical flight profile, said distances only being measured using the paths that can be passed by the travelling object. The inventive method employs a propagation distance transform which: (i) lists the passable paths from a target point to a source point, the distance of which is to be estimated in order to provide distance measurements; and compares the distance from the target point to the length of the shortest passable paths(s).

IPC 1-7

**G01C 21/00**; **G08G 5/04**; **G05D 1/02**

IPC 8 full level

**G01C 21/00** (2006.01); **G08G 5/04** (2006.01)

CPC (source: EP US)

**G01C 21/005** (2013.01 - EP US); **G08G 5/0013** (2013.01 - EP US); **G08G 5/045** (2013.01 - EP US)

Citation (search report)

See references of WO 2005031262A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**FR 2860292 A1 20050401**; **FR 2860292 B1 20051202**; EP 1664677 A1 20060607; US 2007031007 A1 20070208; US 7739035 B2 20100615; WO 2005031262 A1 20050407

DOCDB simple family (application)

**FR 0311320 A 20030926**; EP 04766733 A 20040908; EP 2004052078 W 20040908; US 57341006 A 20060327