

Title (en)

SYSTEM AND METHOD FOR THREE-DIMENSIONAL OBJECT RECONSTRUCTION FROM TWO-DIMENSIONAL IMAGES

Title (de)

SYSTEM UND VERFAHREN ZUR DREIDIMENSIONALEN OBJEKTREKONSTRUKTION AUS ZWEIDIMENSIONALEN BILDERN

Title (fr)

SYSTÈME ET PROCÉDÉ PERMETTANT UNE RECONSTRUCTION TRIDIMENSIONNELLE D'OBJET À PARTIR D'IMAGES
BIDIMENSIONNELLES

Publication

EP 2016559 A2 20090121 (EN)

Application

EP 06826653 A 20061025

Priority

- US 2006041647 W 20061025
- US 79808706 P 20060505

Abstract (en)

[origin: WO2007130122A2] A system and method for three-dimensional (3D) acquisition and modeling of a scene using two-dimensional (2D) images are provided. The system and method provides for acquiring first and second images of a scene, applying a smoothing function to the first image (202) to make feature points of objects, e.g., corners and edges of the objects, in the scene more visible, applying at least two feature detection functions to the first image to detect feature points of objects in the first image (204, 208), combining outputs of the at least two feature detection functions to select object feature points to be tracked (210), applying a smoothing function to the second image (206), applying a tracking function on the second image to track the selected object feature points (214), and reconstructing a three-dimensional model of the scene from an output of the tracking function (218).

IPC 8 full level

G06T 7/00 (2006.01); **G06T 17/00** (2006.01)

CPC (source: EP)

G06T 5/70 (2024.01); **G06T 7/579** (2016.12)

Citation (search report)

See references of WO 2007130122A2

Designated contracting state (EPC)

DE FR GB

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2007130122 A2 20071115; **WO 2007130122 A3 20080417**; CA 2650557 A1 20071115; CA 2650557 C 20140930;
CN 101432776 A 20090513; CN 101432776 B 20130424; EP 2016559 A2 20090121; JP 2009536499 A 20091008

DOCDB simple family (application)

US 2006041647 W 20061025; CA 2650557 A 20061025; CN 200680054478 A 20061025; EP 06826653 A 20061025; JP 2009509539 A 20061025