

Title (en)

METHOD AND APPARATUS FOR IMAGE REGISTRATION USING LARGE DEFORMATION Diffeomorphisms ON A SPHERE

Title (de)

VERFAHREN UND GERÄT ZUR BILDREGISTRIERUNG, MIT VERWENDUNG Diffeomorphismen MIT GROSSERER DEFORMATION AUF EINER KUGEL

Title (fr)

PROCEDE ET DISPOSITIF DE COMBINAISON D'IMAGES AU MOYEN DE Diffeomorphisme DE DEFORMATION IMPORTANTE SUR UNE SPHERE

Publication

EP 1222608 A1 20020717 (EN)

Application

EP 00965280 A 20000922

Priority

- US 0025971 W 20000922
- US 15514199 P 19990922

Abstract (en)

[origin: WO0122352A1] An apparatus and method for image registration of a template image (100) with a target image (120) with large deformation. The apparatus and method involve computing a large deformation transform based on landmark manifolds (350), image data or both. The apparatus and method are capable of registering (380) images with a small number of landmark points. Registering the images is accomplished by applying the large deformation transform.

IPC 1-7

G06K 9/00; **G06K 9/32**; **G06K 9/36**; **G06K 9/62**

IPC 8 full level

G06K 9/64 (2006.01); **G06T 3/00** (2006.01); **G06T 7/00** (2006.01)

CPC (source: EP US)

G06T 3/153 (2024.01 - EP US); **G06T 7/33** (2016.12 - EP); **G06V 10/754** (2022.01 - EP US); **G06T 2207/30016** (2013.01 - EP)

Citation (search report)

See references of WO 0122352A1

Designated contracting state (EPC)

AT BE DE FR

DOCDB simple family (publication)

WO 0122352 A1 20010329; AU 7601900 A 20010424; EP 1222608 A1 20020717

DOCDB simple family (application)

US 0025971 W 20000922; AU 7601900 A 20000922; EP 00965280 A 20000922