

Title (en)

METHOD AND SYSTEM FOR IDENTIFYING PROXIMITY AREAS BETWEEN SEVERAL DIGITALLY SIMULATED GEOMETRICAL OBJECTS

Title (de)

VERFAHREN UND SYSTEM ZUR IDENTIFIZIERUNG DER PROXIMITÄTSBEREICHE ZWISCHEN MEHREREN DIGITAL SIMULIERTEN GEOMETRISCHEN OBJEKTEN

Title (fr)

PROCEDE ET SYSTEME D'IDENTIFICATION DE ZONES DE PROXIMITE ENTRE PLUSIEURS OBJETS GEOMETRIQUES SIMULES NUMERIQUEMENT

Publication

EP 1779306 A2 20070502 (FR)

Application

EP 05792025 A 20050720

Priority

- FR 2005050597 W 20050720
- FR 0408114 A 20040722

Abstract (en)

[origin: WO2006018570A2] The inventive system for identifying proximity areas between several digitally simulated geometrical objects comprises (a) a memory (111) for storing data describing the geometry of objects, (b) an initialisation module (120) for creating a pawn population, (c) a central processing unit (140) consisting of at least (c1) one unit (141) for selecting the percentage of the pawn population to be exposed to a paired combat, (c2) a comparing and calculating unit (142) for evaluating the quality of each pawn, (c3) a marker unit (143) for identifying which pawn of a pawn pair exposed to combat won or lost for each session of a tournament, (c4) an iteration unit (144) for advancing the pawn which participated in at least one combat in association with at least one exploratory mutation operator and one redefinition operator and (c5) an extracting module (145) for retaining only the best pawns of population in order to determine the proximity areas between at least two objects.

IPC 8 full level

G06N 3/12 (2006.01); **B25J 9/16** (2006.01); **G06T 17/00** (2006.01); **G06T 19/00** (2011.01)

CPC (source: EP US)

G06N 3/126 (2013.01 - EP US); **G06T 17/00** (2013.01 - EP US); **G06T 2210/21** (2013.01 - EP US)

Citation (search report)

See references of WO 2006018570A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2873472 A1 20060127; FR 2873472 B1 20070209; EP 1779306 A2 20070502; JP 2008507056 A 20080306; JP 4829885 B2 20111207; US 2008319718 A1 20081225; US 7774180 B2 20100810; WO 2006018570 A2 20060223; WO 2006018570 A3 20060330

DOCDB simple family (application)

FR 0408114 A 20040722; EP 05792025 A 20050720; FR 2005050597 W 20050720; JP 2007521997 A 20050720; US 65812505 A 20050720