Title (en)

DEVICE FOR SIMULATING A MEDIUM EVOLUTION BY ASYNCHRONOUS AND CHAOTIC PROCESSING IN THE PRESENCE OF AUTONOMOUS INTERACTING ENTITIES AND A MULTI-AGENT SYSTEM

Title (de)

EINRICHTUNG ZUR SIMULATION EINER MEDIUM-EVOLUTION DURCH ASYNCHRONE UND CHAOTISCHE VERARBEITUNG BEI ANWESENHEIT AUTONOMER INTERAGIERENDER ENTITÄTEN UND EINES MEHRFACH-AGENT-SYSTEMS

Title (fr)

LOGICIEL DE SIMULATION DE L'EVOLUTION D'UN MILIEU PAR TRAITEMENT ASYNCHRONE ET CHAOTIQUE EN PRESENCE D'ENTITES AUTONOMES INTERAGISSANT EN UN SYSTEME MULTI-AGENTS

Publication

EP 1751682 A2 20070214 (FR)

Application

EP 04787412 A 20040922

Priority

- FR 2004002384 W 20040922
- FR 0405943 A 20040602

Abstract (en)

[origin: WO2006003271A2] A computer supporting an active object program in a multi-purpose mode comprises a device (D) for simulating the time evolution of a medium. Said device (D) comprises a software dedicated for simulating by objects the joint evolution of certain activated objects comprising enaction objects defining autonomous spatiotemporal entities each of which represents a physical phenomenon and, when activated, interacts in a multi-agent medium via state objects defining interaction mediators providing a topological spatiotemporal support which forms a virtual environment representing a simulated medium and makes it possible to detect the interactions between the entities in space and in time and (ii) a simulation manager capable to operate by sequences on a selection of the enaction objects and to activate each enaction object only once for each sequence according to an order varying at least partially in a random manner from one sequence to the other, thereby enabling the spatiotemporal interactions dynamically evolve sequence by sequence between the enaction objects.

IPC 8 full level

G06F 17/50 (2006.01)

CPC (source: EP US)

G06F 30/20 (2020.01 - EP US); G06F 2111/10 (2020.01 - EP US)

Citation (search report)

See references of WO 2006003271A2

Citation (examination)

HARROUET F ET AL: "oRis: an environment for interactive multi-agent simulation", TECHNIQUE ET SCIENCE INFORMATIQUES, L'AFCET, PARIS, FR, vol. 21, no. 4, 1 January 2002 (2002-01-01), pages 499 - 524, XP002489259, ISSN: 0752-4072

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Designated extension state (EPC)

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