

Title (en)

A SYSTEM FOR EVALUATING THE CURRENT EVOLUTIONARY STATUS OF EVENTS OR PROCESSES IN A GEOGRAPHICAL REGION AND FOR GENERATING AND VISUALIZING PREDICTIONS OF THE EVOLUTIONARY DYNAMICS IN TIME AND SPACE

Title (de)

SYSTEM ZUR BEURTEILUNG DES AKTUELLEN EVOLUTIONÄREN STATUS VON EREIGNISSEN ODER PROZESSEN IN EINER GEOGRAFISCHEN REGION SOWIE ZUR ERSTELLUNG UND VISUALISIERUNG VON PROGNOSEN ÜBER DIE EVOLUTIONÄRE DYNAMIK IN ZEIT UND RAUM

Title (fr)

SYSTÈME D'ÉVALUATION DE L'ÉTAT ÉVOLUTIF COURANT D'ÉVÉNEMENTS OU DE PROCESSUS DANS UNE ZONE GÉOGRAPHIQUE ET DE FORMATION ET REPRÉSENTATION DE PRÉVISIONS DE LA DYNAMIQUE ÉVOLUTIVE DANS LE TEMPS ET DANS L'ESPACE

Publication

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Application

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Abstract (en)

[origin: WO2012089539A1] A system for evaluating the current evolutionary status of events or processes in a geographical region and for generating and visualizing predictions of the evolutionary dynamics in time and space. The said system operates by means of a virtual model which is directed to the simulation of a process or of an event which takes place in a geophysical territory, the territory being described by a two or three dimensional geometrical map, the said virtual model is in the form of a suite of executable programs which can be loaded in the working memory of a processing unit and executed by the said processing unit on demand; a representation of the status and of the evolution of the process at certain time being in the form of a graphical representation displayed on a screen; The event or process which the system evaluates and for which the said system generates and visualizes the evolutionary dynamics in time and space is the landslide in a certain geographical territory for monitoring and prediction giving a strong decision support system to the territorial authority and specialist teams; The computed current condition of the landslide dynamics in whole territory based on the data obtained for certain geographical points distributed on the territory and highlight the said status by means of one or more graphical outputs or the computed evolution of the process or event at a certain time instant is visualized as a grid which is deformed according to the geographical positions of the points in time and which is registered and superimposed to a two or three dimensional map or aerial or satellite image of the territory; the condition of the event or process, namely of the landslide, is determined by means of the displacements measures of certain number of sensors placed on the territory taken at different time.

IPC 8 full level

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