Gabriel A. Wainer

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Title:
A NON-MODULAR CELLULAR DEVS MODEL OF THE DEGRADATION OF A CULTIVATED SOIL SURFACE BY RAINFALL

Authors:
Valette, G; Prevost, S; Lucas, L; Leonard, J

Author Full Names:
Valette, Gilles; Prevost, Stephanie; Lucas, Laurent; Leonard, Joel

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Keywords Plus:
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Abstract:
We aim to model and simulate the evolution of the surface structure of a cultivated soil surface during rainfall. The surface degradation is mainly the consequence of the creation and the transport of soil fragments, which are caused by the circulation of water, rainfall and runoff in particular. Our first intent was to use Cellular Automata (CA), but these processes cannot easily be modelled in a pure CA model because they are both discrete and continuous, local and global. We explain in this paper how non modular cellular REVS can efficiently model this natural system and we present in detail the coupled model of the simulator and the atomic model of the terrain, and we give a sketch of the way we model the processes involved.

Reprint Address:
Valette, G, Univ Reims, CReSTIC SIC MADS, EA3804, Reims, France.

Research Institution addresses:

[Valette, Gilles; Prevost, Stephanie; Lucas, Laurent] Univ Reims, CReSTIC SIC MADS, EA3804, Reims, France

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Title:
Specification of Dynamic Structure Cellular Automata & Agents

Authors:
Muzy, A; Hu, XL

Author Full Names:

Muzy, Alexandre; Hu, Xiaolin

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Author Keywords:
Dynamic Structure; Cellular Automata; Agent; DEVS; Modeling and Simulation

Abstract:
This paper proposes a framework for dynamic structure cellular automata & agent (DSCA). Such framework allows preserving modularity of components as wen as supports dynamic structure modeling of components during a simulation. The formal specification and the component-based approach of DSCA(2) builds a solid ground for future applications of complex system modeling and simulation.

Reprint Address:
Muzy, A, Univ Corsica Pasquale Paoli, CNRS, UMR, LISA, F-20250 Corte, ID, France.

Research Institution addresses:
[Muzy, Alexandre] Univ Corsica Pasquale Paoli, CNRS, UMR, LISA, F-20250 Corte, ID, France

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