



Unstructured Cellular Automata in Ecohydraulics Modelling

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Unstructured Cellular Automata in Ecohydraulics Modelling Yuqing Lin, 2015-01-25 The field of ecohydraulics integrates hydrodynamic and eco dynamic processes While hydrodynamic processes are usually well described by partial differential equations PDE s based on physical conservation principles ecosystem dynamics often involve specific interactions at the local scale Because of this Cellular Automata CA are a viable paradigm in ecosystem modelling All cells in a CA system update their states synchronously at discrete steps according to simple local rules The classical CA configuration consists of uniformly distributed cells on a structured grid But in the field of hydrodynamics the use of unstructured grids has become more and more popular due to its flexibility to handle arbitrary geometries The main objective of this research is to identify whether the CA paradigm can be extended to unstructured grids To that end the concept of Unstructured Cellular Automata UCA is developed and various UCA configurations are explored and their performance investigated The influence of cell size was analyzed in analogy with the Finite Volume Method A characteristic parameter min distance of UCA was put forward and tested by numerical experiments Special attention was paid to exploring the analogies and differences between the discrete CA paradigm and discrete numerical approximations for solving PDE s The practical applicability of UCA in ecohydraulics modelling is explored through a number of case studies and compared with field measurements **Spatial Pattern**

Dynamics in Aquatic Ecosystem Modelling Hong Li, 2009-12-22 This book explores modelling approaches to represent spatial pattern dynamics of aquatic populations in aquatic ecosystems It combines models knowledge and data in different scales It demonstrates that including spatially distributed inputs retrieved from Remote Sensing images a conventional physically based Harmful Algal Bloom model can be enhanced and that Cellular Automat based models using high resolution photographs prove to be good in representing aquatic plant growth The book also develops a synthesis modellign framework that includes biological ecological growth and diffusive processes and a local effects in a conventional modelling framework

Cellular Automata and Artificial Intelligence in Ecohydraulics Modelling Qiuwen Chen, 2004-05-01 International events such as the UN Summit in Johannesburg 2002 and the Third World Water Forum in Kyoto 2003 re emphasized the importance of meeting the difficult challenges related to the sustainable development of water and environment There is a demand for direct action on improving water resources management and conserving natural Cellular Automata Modeling and Urban Simulation Nuno Eduardo Norte Pinto, Josep Roca Cladera, Universitat Politècnica de Catalunya. Departament de Construccions Arquitectòniques I., Escola Tècnica Superior d'Arquitectura de Barcelona, 2007

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