

# Unstructured Cellular Automata in Ecohydraulics Modelling

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Unstructured Cellular Automata in Ecohydraulics Modelling Yuging 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 **New Methods and**Paradigms for Modeling Dynamic Processes Based on Cellular Automata Bilan, Stepan Mykolayovych, Bilan, Mykola Mykolayovych, Motornyuk, Ruslan Leonidovich, 2020-10-16 The accelerating development of computer technology and communications can replace many of the functions of human intellectual activity as well as help them in making decisions in various situations of their lives To implement intelligent functions for various purposes numerous models paradigms architectures and hardware and software are being developed Because the world is constantly evolving there is a need to constantly study various dynamic processes to determine possible negative situations that can lead to undesirable

catastrophic phenomena and changes Recently more attention has been paid to the study of natural processes in nature Scientific works are appearing that describe the behavior and development of living organisms and the processes of their interaction Cellular automata are increasingly used to describe and model them New Methods and Paradigms for Modeling Dynamic Processes Based on Cellular Automata is a collection of innovative research that describes the models and paradigms of building cellular automata that allows for the simulation of the dynamics of the interaction of living organisms from a different scientific point of view For this asynchronous cellular automata with a dynamically changing number of living cells are used The chapters describe the theoretical concepts of constructing asynchronous cellular automata with active cells Much attention is paid to the use of the proposed theoretical principles for solving modeling problems and solving specific applied problems of forming pseudorandom sequences and image processing based on modeling of the human visual channel Featuring research on topics such as colony interaction image processing and recognition and influence mode this book is ideally designed for engineers programmers software developers researchers academicians and students

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