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example vehicular
traffic [3] and
biological systems
[4,5].

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The course introduces
simulation techniques
frequently used in

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complex systems to handle models with many heterogeneous parts. Specifically, we will look at agent-based modelling, evolutionary game theory, cellular automata, and networks, with application to physics, biology and social science.

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Automata I: Modeling.

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Examples of Simple
Binary Cellular

Automata Rules

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Introduction to the Modeling and Analysis of Complex Systems

A cellular automaton (pl. cellular automata, abbrev.CA) is a discrete model of computation studied in automata theory. Cellular automata are also called cellular spaces, tessellation automata, homogeneous structures, cellular

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structures, tessellation
structures, and
iterative arrays.
Cellular automata have
found application in
various areas,
including physics,
theoretical biology and
...

Cellular automaton - Wikipedia

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System Assignment
Help. Introduction.
Complex systems are
systems made from a

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great deal of tiny elements engaging with each other in nontrivial methods. Lots of real-world systems can be comprehended as complex systems, where seriously crucial info lives in the relationships in between the parts and not always within the parts themselves.

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Publications related to cellular automata for complex systems

Suzudo, T. "Spatial Pattern Formation in Asynchronous Cellular Automata with Mass Conservation", to be published in Physica A, 343C, 185(2004) (to download pdf-formatted file)(296kB)

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the network and the

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mimic the realistic
evolution of complex
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An agent-based model (ABM) is a class of computational models for simulating the actions and interactions of autonomous agents (both individual or collective entities such as organizations or groups) with a view to assessing their effects on the system as a

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whole. It combines elements of game theory, complex systems, emergence, computational sociology, multi-agent systems, and evolutionary ...

Agent-based model - Wikipedia

toolkit, Cellular Discrete Event System Specification is suitable for modeling, simulating, implementing and

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visualizing social
systems. Index

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past as a helping tool
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