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This thesis focuses on the dynamics of autonomous Boolean networks, on the basis of Boolean logic functions in continuous time without external clocking. These networks are realized with integrated circuits on an electronic chip as a field programmable gate array (FPGA) with roughly 100,000 logic gates, offering an extremely flexible model system.

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Introduction --Previous Work on Boolean Networks --Autonomous Boolean Networks on Electronic Chips --Chaotic Dynamics of Autonomous Boolean Networks --Ultra-Fast Physical Generation of Random Numbers Using Hybrid Boolean Networks --Periodic Dynamics in Autonomous Boolean Networks --Chimera Dynamics in Networks of Boolean Phase Oscillators --Excitable Dynamics in Autonomous Boolean Networks --Cluster Synchronization in Boolean Neural Networks --Summary and Outlook.

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Dynamics of Complex Autonomous Boolean Networks

Complex Dynamics of Autonomous Communication Networks and the Intelligent Communication Paradigm Andrei P. Kirilyuk Institute of Metal Physics of the National Academy of Sciences of Ukraine 36 Vernadsky Bd, Kiev-142, Ukraine 03142 kiril@metfiz.freenet.kiev.ua Abstract. Dynamics of arbitrary communication system is analysed as unreduced interaction process.

Complex Dynamics of Autonomous Communication Networks and

Evolutionary Dynamics of Complex Networks: Theory, Methods and Applications Introduction Collaboration is one of the defining features of modern science (Milojević 2010). It is defined as "working together for a common goal and sharing of knowledge" (Hara, Solomon, Kim, & Sonnenwald, 2003) (p. 853).

Evolutionary Dynamics of Complex Networks: Theory, Methods

connected to autonomous Boolean networks with chaotic, periodic, or excitable dynamics. I am able to make scientific discoveries for networks with each of these three different node dynamics, driven by the large excitability and the non-ideal effects of the experiment complemented by analytical and numerical investigations.

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Verification and Validation Challenges for Adaptive Flight

ditions for the system to exhibit complex dynamical behavior. In the process we discuss properties like transitivity, weakly mixing, topologically mixing, minimality, sensitivity, topological entropy, and Li-Yorke chaoticity for the non-autonomous system. We also give examples to prove that the dynamical behavior of the non-

Dynamics of Non-Autonomous Discrete Dynamical Systems

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