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Universality and emergent computation in cellular neural networks. [Radu Dogaru] -- Cellular computing is a natural information processing paradigm, capable of modeling various biological, physical and social phenomena, as well as other kinds of complex adaptive systems.

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Universality and Emergent Computation in Cellular Neural Networks (World Scientific Nonlinear Science Series a) [Dogaru, Radu] on Amazon.com. *FREE* shipping on qualifying offers.

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Singapore, 260 pp, hardcover, ISBN 981-238-102-3 January 2005

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Universality and emergent computation in cellular neural

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In Chapter 4 a principle to probe universal principles of emergent computation was presented. The principle was further expressed in terms of a notion of coherent solution. The notion says that binary sequences of a coherent solution maximize structural complexity or share as many common structural numbers as possible.

Searching for Universal Principles of Emergent Computation ...

It is shown that the inherent transient dynamics of the high-dimensional dynamical system formed by a sufficiently large and heterogeneous neural circuit may serve as universal analog fading memory. Readout neurons can learn to extract in real

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time from the current state of such recurrent neural circuit information about current and past inputs that may be needed for diverse tasks.

Real-Time Computing Without Stable States: A New Framework ...

Matthew Cook proved Rule 110 capable of supporting universal computation. Rule 110 is a simple enough system to suggest that naturally occurring physical systems may also be capable of universality, meaning that many of their properties will be undecidable, and not amenable to closed-form mathematical solutions.

Rule 110 - Wikipedia

quantum computation is as much fun as jumping into such small sailboats and steering them around each other. Will we benefit from such man-made quantum systems besides knowing factors

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of large integers? A compelling reason comes from R. Feynman: a quantum computer is an efficient universal simulator of quantum mechanics [Fe82]. Later, an

Topological Quantum Computation Zhenghan Wang

Title: Efficient Squares and Turing Universality at Temperature 1 with a Unique Negative Glue Authors: Matthew J. Patitz , Robert T. Schweller , Scott M. Summers (Submitted on 6 May 2011 (v1), last revised 1 Feb 2012 (this version, v2))

[1105.1215] Efficient Squares and Turing Universality at

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MNN: A Universal and Efficient Inference Engine (3) Resource limitation. Despite the rapid hardware development, memory and computation power are still constrained on mobile devices and are orders of magnitude lower than their desktop and server counterparts. Concluded from the challenges above, a good

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mobile infer-

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MNN: A Universal and Efficient Inference Engine

This book presents a proof of universal computation in the Game of Life cellular automaton by using a Turing machine construction. It provides an introduction including background information and an extended review of the literature for Turing Machines, Counter Machines and the relevant patterns in Conway's Game of Life so that the subject matter is accessibly to non specialists.

Turing Machine Universality of the Game of Life (Emergence ...

Computation at the edge of chaos: Phase transitions and emergent computation. Physica D , 42:12 37, 1990. [2] P Tisseur 2000 Nonlinearity 13 1547-1560 Cellular automata and Lyapunov exponents

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Cellular Automata Tutorial

Universality and individuality in neural dynamics across large populations of recurrent networks N. Maheswaranathan*, A.H. Williams*, M. Golub, S. Ganguli, D. Sussillo, Neural Information Processing Systems (NeurIPS) 2019

Neural Dynamics and Computation Lab

- propose a computation model which interest a lot of real world programmers ...
- R is the class of rewrites of emergent algebras
- A is the simplest algorithm of rewrite: random; There are no points, ...
- GLC and Chemlambda v1 are Turing universal as regards the rewrites. Huge interest for decentralized computing!

A kaleidoscope - GitHub Pages

In particular, the UniversalComputer is an upper, as well as lower, limit on computability -- it can perform any computation

that is possible. The universality of even the simplest CA means that Universal Computers are abundant, rather than scarce.

Emergent Behavior - WikiWikiWeb

In order for computation to emerge spontaneously and become an important factor in the dynamics of a system, the material substrate must support the primitive functions required for computation: the transmission, storage, and modification of information. Under what conditions might we expect physical systems to support such computational primitives? This paper presents research on cellular ...

Computation at the edge of chaos: phase transitions and

...

The calculation was implemented by using Compatible Monte Carlo (15, 24). The results from Monte Carlo are presented for a 64×64 lattice at its critical point in Fig. 3 . From an information

theory perspective, the results shown in Fig. 3 and analysis detailed in (15) demonstrate that relevant variables are exactly those for which spatial coarsening preserves measurement precision.

Parameter Space Compression Underlies Emergent Theories ...

Fig. 1. Schematic setting. (A) A quantum emitter Q is coupled to a 1D waveguide that is terminated on one side by a (distant) mirror.(B) In each time step k , Q can emit a photon ($k + N$) toward the mirror—that is, into a delay line—and interact with a photon k returning from the delay line, exiting at the output port.(C) Visualization of the resulting entanglement structure: Wrapping the ...

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