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1128 Linearization and Synthesis of Cellular Automata: The Additive Case. <b>19</b>	<b>986</b> , 34, 444-448 6
1127 Model for the formation of nonequilibrium clusters. <b>1986</b> , 33, 3618-362	.1 4
1126 Periods and clusters in Ising cellular automata. <b>1987</b> , 20, 4939-4948	27
1125 Some more exact enumeration results for 1D cellular automata. <b>1987</b> , 2	20, 4039-4046 12
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$_{ m 1123}$ On the approach of the stationary state in Kauffman's random Boolean	network. <b>1987</b> , 48, 185-191 46
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1120 A mathematical classification of the one-dimensional deterministic cellu	ular automata. <b>1987</b> , 112, 627-631 3
1119 Biogenesis and the growth of DNA-like polymer chains: A computer sim	ulation. <b>1988</b> , 153, 202-216 4
1118 Dynamics of selected reactions catalyzed by platinum supported on zeo	olites and Al2O3. <b>1988</b> , 3, 475-483 6
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1116 Onset of turbulent pattern in a coupled map lattice. Case for soliton-like	e behavior. <b>1988</b> , 128, 349-354 5
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	20
1109 Structural basis of multistationary quantum systems. II. Effective few-particle dynamics. <b>1988</b> , 37, 8 <sup>-7</sup>	111-8121 <sub>50</sub>
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1105 On the evaluation of magnetisation fluctuations with Q2R cellular automata. <b>1989</b> , 22, 943-950	17
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1103 Intrinsic disorder and the early Universe. <b>1989</b> , 15, L231-L235	1
1102 Kinetic Phase Transition in a One-Component Irreversible Reaction Model. <b>1989</b> , 10, 249-255	27
1101 A VLSI architecture for percolation simulation. <b>1989</b> , 84, 76-89	2
A geometrical interpretation of the chaotic state of inhomogeneous deterministic cellular automata. <b>1989</b> , 160, 275-297	4
1099 A numerical study of one-dimensional cellular automata. <i>Physica D: Nonlinear Phenomena</i> , <b>1989</b> , 39,	352- <u>3,6</u> 4 2
1098 Nonstationary dissipative structures and diffusion-induced chaos in nonlinear media. <b>1989</b> , 176, 189	9-370 40
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1096 . <b>1989</b> , 8, 842-859	212
1095 . <b>1989,</b> 38, 769-774	10
1094 . <b>1989</b> , 38, 1466-1473	136
1093 On the Limit Sets of Cellular Automata. <b>1989</b> , 18, 831-842	77

1092	•		13
1091			4
1090	Kinetic Phase Transition in a One Component Irreversible Reaction Model. <b>1990</b> , T33, 65-70		1
1089	. <b>1990</b> , 38, 2099-2107		22
1088	The algebraic properties of finite cellular automata. <i>Physica D: Nonlinear Phenomena</i> , <b>1990</b> , 41, 282-294	3.3	2
1087	Transition phenomena in cellular automata rule space. <i>Physica D: Nonlinear Phenomena</i> , <b>1990</b> , 45, 77-94	3.3	91
1086	Is there a sharp phase transition for deterministic cellular automata?. <i>Physica D: Nonlinear Phenomena</i> , <b>1990</b> , 45, 95-104	3.3	25
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1077	Nearest neighbor cellular automata over Z2 with periodic boundary conditions. <i>Physica D: Nonlinear Phenomena</i> , <b>1990</b> , 45, 26-35	3.3	7
1076	Boolean derivatives on cellular automata. <i>Physica D: Nonlinear Phenomena</i> , <b>1990</b> , 45, 63-74	3.3	51
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1073 Classifying circular cellular automata. <i>Physica D: Nonlinear Phenomena</i> , <b>1990</b> , 45, 386-395	3.3	36
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1071 The quantum coin toss-testing microphysical undecidability. <b>1990</b> , 143, 433-437		29
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1069 Energy and attractors in parallel Potts dynamics. <b>1990</b> , 23, 1329-1332		1
1068 Scaling of overhangs in (1+1)-dimensional directed processes in a gradient. <b>1990</b> , 23, L145-L151		10
Annihilation of Defects during the Evolution of Some One-Dimensional Class-3 Deterministic Cellular Automata. <b>1990</b> , 13, 489-494		5
1066 Kinetic Ising cellular automata models in one dimension. <b>1990</b> , 23, 2147-2156		5
1065 Critical behavior of an autocatalytic reaction model. <b>1990</b> , 41, 5294-5301		73
1064 .		3
1063 . <b>1990</b> , 39, 1273-1283		21
1062 . <b>1990</b> , 9, 767-778		122
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1060 . <b>1990</b> , 12, 74-78		4
1059 Seismic fluids and percolation theory. <b>1991</b> , 96, 8417		6
1058 .		277
1057 Analytic determination of stationary patterns of cellular automata. <b>1991</b> , 159, 379-383		

1056 Long-range correlations in chaotic cellular automata. <i>Physica D: Nonlinear Phenomena</i> , <b>1991</b> , 48, 295-310 <sub>3.3</sub>	5
The structure of reversible one-dimensional cellular automata. <i>Physica D: Nonlinear Phenomena</i> , 1055 <b>1991</b> , 52, 277-292	7
Dynamics of a large system of coupled nonlinear oscillators. <i>Physica D: Nonlinear Phenomena</i> , <b>1991</b> , 52, 293-331	188
1053 Block transformations of one-dimensional deterministic cellular automaton rules. <b>1991</b> , 24, 1849-1865	7
Particlelike structures and their interactions in spatiotemporal patterns generated by one-dimensional deterministic cellular-automaton rules. <b>1991</b> , 44, 866-875	68
1051 Transients, cycles, and complexity in cellular automata. <b>1991</b> , 44, R7881-R7884	9
Effect Of Noise On Long Term Memory In Cellular Automata With Asynchronous Delays Between The Processors.	
1049 .	2
1048 Two Pattern Learning Algorithms Using Dynamical Systems.	
1047 Spontaneous evolution of spatiotemporal patterns in materials. <b>1992</b> , 55, 723-795	57
1046 .	О
1045 .	Ο
1044 .	18
1043 Phenomenology of nonlocal cellular automata. <b>1992</b> , 68, 829-882	32
1042 The kink of cellular automaton rule 18 performs a random walk. <b>1992</b> , 69, 1131-1136	29
1041 Measure theoretic approach to the classification of cellular automata. <b>1992</b> , 39, 125-136	3
1040 Calculating growth rates and moments for additive cellular automata. <b>1992</b> , 35, 47-65	12
1039 Noisy collective behaviour in deterministic cellular automata. <b>1992</b> , 180, 19-41	58

1038	Towards the classification of all Boolean cellular automata. <b>1992</b> , 182, 320-324		2
1037	Self-organization toward criticality in the Game of Life. <i>BioSystems</i> , <b>1992</b> , 26, 135-8	1.9	12
1036	Damage spreading and Lyapunov exponents in cellular automata. <b>1992</b> , 172, 34-38		61
1035	Transient behavior of cellular automaton rule 110. <b>1992</b> , 166, 335-339		9
1034	Collective behaviors in a family of high-dimensional cellular automata. <b>1992</b> , 163, 279-285		11
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1029	Transformations of one-dimensional cellular automaton rules by translation-invariant local surjective mappings. <i>Physica D: Nonlinear Phenomena</i> , <b>1993</b> , 68, 416-426	3.3	7
1028	Cellular automata approach to site percolation on Z2. A numerical study. <b>1993</b> , 73, 399-408		1
1027			
1026			
1025	Cellular Automata Synthesis Based On Precomputed Test Vectors For Built-in Self-test.		5
1024	•		
1023			
1022	Cellular Automata and Fractal Urban Form: A Cellular Modelling Approach to the Evolution of Urban Land-Use Patterns. <b>1993</b> , 25, 1175-1199		727
1021	Optically driven quantum networks: Applications in molecular electronics. <b>1993</b> , 48, 2335-2346		46

1020 Nonlinear dynamics of the cellular-automaton "game of Life". <b>1993</b> , 48, 3345-3351		17
1019 Bibliography. <b>1993</b> , 393-448		
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1017 A Novel Quantum Cellular Automata Logic with Loop Structures. <b>1994</b> , 33, L1502-L1505		12
1016 .		2
1015 Parametric ordering of complex systems. <b>1994</b> , 49, 2023-2025		12
1014 Evolution and extinction of families in cellular automata. <b>1994</b> , 49, 5900-5902		4
1013 Fractal evolution of normalized feedback systems on a lattice. <b>1994</b> , 186, 145-151		
Predecessors of cellular automata states III. Garden of Eden classification of cellular automata.  Physica D: Nonlinear Phenomena, <b>1994</b> , 73, 152-167	3.3	5
Multilevel evolution: replicators and the evolution of diversity. <i>Physica D: Nonlinear Phenomena</i> , <b>1994</b> , 75, 275-291	3.3	25
Computer simulations of self-organized wind ripple patterns. <i>Physica D: Nonlinear Phenomena</i> , <b>1994</b> , 77, 238-260	3.3	48
1009 (Anti-) stable points and the dynamics of extended systems. <b>1994</b> , 187, 167-170		
1008 A universal cellular automaton in quasi-linear time and its Sfh form. <b>1994</b> , 123, 199-237		31
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1006 .		
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1004 Sequential predation: a multi-model study. <b>1995</b> , 174, 149-167		13
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1002	Forecasting the spatial dynamics of gypsy moth outbreaks using cellular transition models. <b>1995</b> , 10, 177-189	27
1001	Characteristic representation of elementary cellular automata. <b>1995</b> , 198, 23-33	2
1000	Pattern growth in elementary cellular automata. <b>1995</b> , 145, 1-26	35
999	Divisibility and cellular automata. <b>1995</b> , 6, 105-112	2
998	Relaxation and limit cycles in a global version of the quenched Kauffman model. 1995, 216, 120-127	1
997	Block-analyzing method in cellular automata. <b>1995</b> , 52, 3566-3569	1
996	Role of initial conditions in the classification of the rule space of cellular automata dynamics. <b>1995</b> , 51, 3032-3037	9
995	The operation of the social system in a model based on cellular automata. <b>1995</b> , 34, 413-441	3
994	. <b>1995</b> , 44, 805-816	30
993	Mixed deterministic and pseudorandom test vector generator based on cellular automata structures.	
993 992		О
	structures.	0
992	Pattern recognition using Boltzmann machine.	
992 991	Pattern recognition using Boltzmann machine.  Analysis of one-dimensional linear hybrid cellular automata over GF(q). 1996, 45, 782-792  A cellular-automaton model for cooperative effects in matter-radiation interaction: the	17
992 991 990	Pattern recognition using Boltzmann machine.  Analysis of one-dimensional linear hybrid cellular automata over GF(q). 1996, 45, 782-792  A cellular-automaton model for cooperative effects in matter-radiation interaction: the semiconductor laser. 1996, 111, 863-877	17
992 991 990 989	Pattern recognition using Boltzmann machine.  Analysis of one-dimensional linear hybrid cellular automata over GF(q). 1996, 45, 782-792  A cellular-automaton model for cooperative effects in matter-radiation interaction: the semiconductor laser. 1996, 111, 863-877  SUZANA: a 3D CAD tool for anisotropically etched silicon microstructures.	17 1
992 991 990 989 988	Pattern recognition using Boltzmann machine.  Analysis of one-dimensional linear hybrid cellular automata over GF(q). 1996, 45, 782-792  A cellular-automaton model for cooperative effects in matter-radiation interaction: the semiconductor laser. 1996, 111, 863-877  SUZANA: a 3D CAD tool for anisotropically etched silicon microstructures.  Self-organization between local and non-local interaction in 2-D cellular automata.	17 1 7

984	Co-evolving non-uniform cellular automata to perform computations. <i>Physica D: Nonlinear Phenomena</i> , <b>1996</b> , 92, 193-208	59
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982	SIMULATING THE SPATIO-TEMPORAL DYNAMICS OF THE PINE CATERPILLAR (DENDROLIMUS PUNCTATUS WALKER) DAMAGE USING THE GENERALIZED CA MODEL. <b>1996</b> , 3, 263-270	
981	When Two and Two Make Four: A Structured Population Without Chaos. <b>1996</b> , 178, 89-97	20
980	Multiplication-free evaluation of polynomials via a Stochastic Bernstein Representation. <b>1996</b> , 79, 1-25	
979	Damage spreading in non-frustrated phase of a triangular antiferromagnet. <b>1996</b> , 232, 162-170	2
978	Visualising global behaviour of 1D cellular automata image sequences in 2D maps. <b>1996</b> , 233, 785-800	12
977	Consensus formation and the cellular automata. <b>1996</b> , 19, 15-22	5
976	Computational complexity of symbolic dynamics at the onset of chaos. <b>1996</b> , 53, 4477-4485	8
975	The evolutionary organization as a complex adaptive system.	2
975 974	The evolutionary organization as a complex adaptive system.  The firefly machine: online evolware.	13
974	The firefly machine: online evolware.	13
974 973	The firefly machine: online evolware.  Phase transitions in random networks: Simple analytic determination of critical points. 1997, 55, 257-260  The use of constrained cellular automata for high-resolution modelling of urban land-use dynamics.	13 70
974 973 972	The firefly machine: online evolware.  Phase transitions in random networks: Simple analytic determination of critical points. 1997, 55, 257-260  The use of constrained cellular automata for high-resolution modelling of urban land-use dynamics. 1997, 24, 323-343  A self-modifying cellular automaton model of historical urbanization in the San Francisco Bay area.	13 70 392
974 973 972 971	The firefly machine: online evolware.  Phase transitions in random networks: Simple analytic determination of critical points. 1997, 55, 257-260  The use of constrained cellular automata for high-resolution modelling of urban land-use dynamics. 1997, 24, 323-343  A self-modifying cellular automaton model of historical urbanization in the San Francisco Bay area. 1997, 24, 247-261	13 70 392
974 973 972 971 970	The firefly machine: online evolware.  Phase transitions in random networks: Simple analytic determination of critical points. 1997, 55, 257-260  The use of constrained cellular automata for high-resolution modelling of urban land-use dynamics. 1997, 24, 323-343  A self-modifying cellular automaton model of historical urbanization in the San Francisco Bay area. 1997, 24, 247-261  Some properties of maximum length cellular automaton sequences.	13 70 392 942

966	Sensitive dependence on initial conditions for cellular automata. <i>Chaos</i> , <b>1997</b> , 7, 688-693	3.3	16
965	One-dimensional cellular automata characterization by the roughness exponent. <b>1997</b> , 245, 461-471		17
964	Phase transition in an elementary probabilistic cellular automaton. <b>1997</b> , 235, 473-485		4
963	A dynamic phase diagram of the planar Ising antiferromagnet. <b>1997</b> , 242, 219-229		1
962	Co-evolving architectures for cellular machines. <i>Physica D: Nonlinear Phenomena</i> , <b>1997</b> , 99, 428-441	3.3	32
961	Self-organized criticality resulting from minimization of perpetual disequilibration. <i>Physica D: Nonlinear Phenomena</i> , <b>1997</b> , 102, 275-284	3.3	2
960	The topological skeleton of cellular automaton dynamics. <i>Physica D: Nonlinear Phenomena</i> , <b>1997</b> , 103, 155-168	3.3	10
959	Computational mechanics of cellular automata: An example. <i>Physica D: Nonlinear Phenomena</i> , <b>1997</b> , 103, 169-189	3.3	94
958	Designing cellular automata using a parallel evolutionary algorithm. <b>1997</b> , 389, 278-283		3
957	The evolution of parallel cellular machines: toward evolware. <i>BioSystems</i> , <b>1997</b> , 42, 29-43	1.9	20
956	Additive one-dimensional cellular automata are chaotic according to Devaney's definition of chaos. <b>1997</b> , 174, 157-170		24
955	The hagichule spaces of neural-like elementary cellular automata. <b>1997</b> , 178, 77-102		4
954	How the neighborhood coherence principle (NCP) can give rise to tissue homeostasis: a cellular automaton approach. <b>1997</b> , 185, 475-87		6
953	On the Emergence of Large-scale Complex Behavior in the Dynamics of a Society of Living Individuals: the Stochastic Game of Life. <b>1997</b> , 187, 183-194		8
952	Nonlinear science (The impact of biology. <b>1997</b> , 334, 971-1014		6
951	Adaptive evolution of holon networks by an autonomous decentralized method. <b>1998</b> , 91, 43-61		14
950	Diffusion on complex cellular automata patterns. <b>1998</b> , 260, 338-348		4
949	Built-in self-test generator design using nonuniform cellular automata model. <b>1998</b> , 145, 155		4

948	Studying artificial life with a molecular automaton. <b>1998</b> , 193, 257-85		15
947	Pattern formation in a patch occupancy metapopulation model: a cellular automata approach. <b>1998</b> , 194, 79-90		23
946	Complex Chaotic Systems and Emergent Phenomena. <b>1998</b> , 8, 235-259		13
945	Phenomenology of excitation in 2-D cellular automata and swarm systems. <b>1998</b> , 9, 1233-1265		21
944	Generalized sub-shifts in elementary cellular automata: the Etrange caselof chaotic rule 180. <b>1998</b> , 201, 171-187		7
943	Measures of statistical complexity: Why?. <b>1998</b> , 238, 244-252		258
942	Non-trivial collective behavior in three-dimensional totalistic illegal cellular automata with high connectivity. <b>1998</b> , 240, 151-159		4
941	Scheduling tasks of a parallel program in two-processor systems with use of cellular automata. <b>1998</b> , 14, 351-364		7
940	1[fluctuation in the Game of Life[]Physica D: Nonlinear Phenomena, <b>1998</b> , 118, 49-52 3.	3	28
939	Introduction To Artificial Life. <b>1998</b> , 2, 168-170		8
938	Tight Bounds on Periodic Cell Configurations in Life. <b>1998</b> , 7, 221-241		3
937	Application of a renormalization group algorithm to nonequilibrium cellular automata with one absorbing state. <b>1998</b> , 57, 6289-6295		2
936	Discovery with genetic algorithm scheduling strategies for cellular automata. 1998, 643-652		7
935	Inducing an order on cellular automata by a grouping operation. <b>1998</b> , 116-127		12
934	Additive cellular automata over Zp and the bottom of (CA,) 1998, 834-843		1
933	Adaptation in co-evolving non-uniform cellular automata. <b>1998</b> , 90-97		О
932	Cities and cellular automata. <b>1998</b> , 2, 111-125		25
931	Cellular Arrays. 1999,		

930 Cellular Automata. 1999,

929	Distributed Simulation with Cellular Automata: Architecture and Applications. <b>1999</b> , 203-248	4
928	FPGA implementation of four-step genetic search algorithm.	2
927	Semiotics of the artificial: The Belflof self-reproducing systems in cellular automata. <b>1999</b> , 127,	7
926	PROGRAMMABLE CELLULAR AUTOMATA. <b>1999</b> , 09, 255-260	1
925	Synchronization of coupled systems with spatiotemporal chaos. <b>1999</b> , 59, R2520-R2522	35
924	Fundamental laws and the completeness of physics 1 This paper was presented under the title Bundamental Lawslat the 25th Annual Philosophy of Science Conference held at the Inter University Centre in Dubrovnik, Croatia, 1217 April 1999. I am grateful to those present for their	2
923	comments and criticism, especially James Robert Brown, Richard Arthur, David Davies, Andrew  Reynolds and Jean-Pierre Marquis I would also like to acknowledge the benefit of discussions of an  Braids of vortex filaments generated by laser on metal surface. 1999, 259, 479-487  earlier version of the paper with Davi. 1999, 13, 261-274	6
922	Riddled basins of coupled elastic arches. <b>1999</b> , 260, 453-461	13
921	Characterizing critical rules at the 'edge of chaos'. <i>BioSystems</i> , <b>1999</b> , 49, 127-42	10
920	FPGA Implementation of one-dimensional and two-dimensional cellular automata. <b>1999</b> , 430, 127-142	0
919	Microscopic chaos from brownian motion?. <b>1999</b> , 401, 875-875	43
918	Microscopic chaos from brownian motion?. <b>1999</b> , 401, 875-876	22
917	Global fixed point attractors of circular cellular automata and periodic tilings of the plane: Undecidability results. <b>1999</b> , 199, 103-122	9
916	Whose Thoughts Are They, Anyway? Dimensionally Exploding Bion's Double-Headed Arrowlinto Coadapting, Transitional Space. <b>1999</b> , 3, 65-92	4
915	Simulation of EEG: dynamic changes in synaptic efficacy, cerebral rhythms, and dissipative and generative activity in cortex. <b>1999</b> , 81, 131-47	29
914	Convolution-Generated Motion as a Link between Cellular Automata and Continuum Pattern Dynamics. <b>1999</b> , 151, 836-861	21
913	The emergence hypothesis and computational universality at the edge of chaos. <b>1999</b> , 82, 1-8	1

912	Synchronization and maximum Lyapunov exponents of cellular automata. <b>1999</b> , 59, R1307-R1310	37
911	Making Music with Algorithms: A Case-Study System. <b>1999</b> , 23, 19-30	48
910	Hardware implementation of four-step genetic search algorithm. <b>1999</b> ,	4
909	Synthesis of self-replication cellular automata using genetic algorithms. 2000,	3
908	Evolutionary financial market models. <b>2000</b> , 287, 507-523	14
907	Network evolution and the emergence of structure. <b>2000</b> , 51-90	2
906	A GROUP INTERPRETATION OF PARTICLES GENERATED BY ONE-DIMENSIONAL CELLULAR AUTOMATON, WOLFRAM'S RULE 54. <b>2000</b> , 11, 101-123	7
905	(Quantum) spacetime as a statistical geometry of lumps in random networks. <b>2000</b> , 17, 2029-2057	21
904	A brief history of cellular automata. <b>2000</b> , 32, 80-107	168
903	References. <b>2000</b> , 275-308	
903	References. 2000, 275-308  Mutual information in a dilute, asymmetric neural network model. 2001, 63, 041905	14
		14
902	Mutual information in a dilute, asymmetric neural network model. <b>2001</b> , 63, 041905	
902	Mutual information in a dilute, asymmetric neural network model. <b>2001</b> , 63, 041905  Computer Aided Systems Theory [EUROCAST 2001. <b>2001</b> ,	
902 901 900	Mutual information in a dilute, asymmetric neural network model. 2001, 63, 041905  Computer Aided Systems Theory ŒUROCAST 2001. 2001,  Nonlinear dynamics of the microwave stimulated emission in dissipative paramagnetic systems.	2
902 901 900 899	Mutual information in a dilute, asymmetric neural network model. 2001, 63, 041905  Computer Aided Systems Theory ŒUROCAST 2001. 2001,  Nonlinear dynamics of the microwave stimulated emission in dissipative paramagnetic systems.  Graph-Cellular Automata: A Generalised Discrete Urban and Regional Model. 2001, 28, 687-705  Highly symmetric cellular automata and their symmetry-breaking patterns. <i>Physica D: Nonlinear</i>	2
902 901 900 899 898	Mutual information in a dilute, asymmetric neural network model. 2001, 63, 041905  Computer Aided Systems Theory IEUROCAST 2001. 2001,  Nonlinear dynamics of the microwave stimulated emission in dissipative paramagnetic systems.  Graph-Cellular Automata: A Generalised Discrete Urban and Regional Model. 2001, 28, 687-705  Highly symmetric cellular automata and their symmetry-breaking patterns. Physica D: Nonlinear Phenomena, 2001, 148, 255-271  3-3  Upper bound on the products of particle interactions in cellular automata. Physica D: Nonlinear	61

894	Convolution Thresholding Methods for Interface Motion. 2001, 169, 678-707	17
893	Brave new modeling: Cellular automata and artificial neural networks for mastering complexity in economics. <b>2001</b> , 7, 39-47	4
892	Toward an integrated continuum model of cerebral dynamics: the cerebral rhythms, synchronous oscillation and cortical stability. <i>BioSystems</i> , <b>2001</b> , 63, 71-88	87
891	INTERMITTENT COLLECTIVE BEHAVIOR IN CELLULAR AUTOMATA. <b>2001</b> , 12, 1229-1239	1
890	Low-Density Series Expansion for the Domany-Kinzel Model. <b>2001</b> , 70, 359-366	3
889	Fractal and chaotic behavior of circular cellular automata. <b>2001</b> , 64, 036105	1
888	Parallel implementations of cellular automata algorithms on the AGILA high performance computing system.	0
887	ONE-DIMENSIONAL CELLULAR AUTOMATA WITH MEMORY: PATTERNS FROM A SINGLE SITE SEED. <b>2002</b> , 12, 205-226	20
886	A quantized chaotic spiking oscillator: analysis and implementation.	
885	Enhanced Environments: Large-Scale, Real-Time Ecosystems. <b>2002</b> , 11, 221-246	3
884	Encryption based on reversible cellular automata.	0
884	Encryption based on reversible cellular automata.  International communication of technological knowledge: an empirical study of Taiwan's manufacturing firms. 2002, 1, 82	
,	International communication of technological knowledge: an empirical study of Taiwan's	0
883	International communication of technological knowledge: an empirical study of Taiwan's manufacturing firms. <b>2002</b> , 1, 82	0
88 <sub>3</sub>	International communication of technological knowledge: an empirical study of Taiwan's manufacturing firms. 2002, 1, 82  Heat conduction and entropy production in a one-dimensional hard-particle gas. 2002, 89, 180601	0 1 1 1 1 3 9
883 882 881	International communication of technological knowledge: an empirical study of Taiwan's manufacturing firms. 2002, 1, 82  Heat conduction and entropy production in a one-dimensional hard-particle gas. 2002, 89, 180601  A persistence criterion for metapopulations. 2002, 61, 115-25  TWO-DIMENSIONAL CELLULAR AUTOMATA WITH MEMORY: PATTERNS STARTING WITH A SINGLE	0 1 139 29
883 882 881	International communication of technological knowledge: an empirical study of Taiwan's manufacturing firms. 2002, 1, 82  Heat conduction and entropy production in a one-dimensional hard-particle gas. 2002, 89, 180601  A persistence criterion for metapopulations. 2002, 61, 115-25  TWO-DIMENSIONAL CELLULAR AUTOMATA WITH MEMORY: PATTERNS STARTING WITH A SINGLE SITE SEED. 2002, 13, 49-65	0 1 139 29 8

876	Sequential and parallel cellular automata-based scheduling algorithms. <b>2002</b> , 13, 1009-1023	31
875	Applying cellular automata in multiprocessor scheduling.	1
874	Dynamic behaviour forecast as a driving force in the coevolution of one-dimensional cellular automata.	
873	An interdisciplinary modelling approach to evaluate the effects of land use change. <b>2002</b> , 27, 655-662	50
872	From embodied to socially embedded agents [Implications for interaction-aware robots. <b>2002</b> , 3, 397-428	116
871	Fuzzy automata and life. <b>2002</b> , 7, 19-29	34
870	Intermittent collective behavior in totalistic cellular automata with high connectivity. 2002, 18, 921-929	
869	Dualities for a Class of Finite Range Probabilistic Cellular Automata in One Dimension. <b>2002</b> , 106, 915-922	6
868	The role of depth and 1/f dynamics in perceiving reversible figures. 2003, 7, 161-80	23
867	The secret-key block cipher MKC1. <b>2003</b> , 86, 68-83	
867	The secret-key block cipher MKC1. <b>2003</b> , 86, 68-83  . <b>2003</b> , 8, 5-25	10
Í		10
866	. <b>2003</b> , 8, 5-25	
866	. <b>2003</b> , 8, 5-25  A numerical simulation of pool boiling using CAS model. <b>2003</b> , 46, 4789-4797  Reversible cellular automata with memory: two-dimensional patterns from a single site seed.	10
866 865 864	. 2003, 8, 5-25  A numerical simulation of pool boiling using CAS model. 2003, 46, 4789-4797  Reversible cellular automata with memory: two-dimensional patterns from a single site seed.  Physica D: Nonlinear Phenomena, 2003, 175, 1-30  3-3  Enhancing evolvability with mutation buffering mediated through multiple weak interactions.	10 45
866 865 864 863	. 2003, 8, 5-25  A numerical simulation of pool boiling using CAS model. 2003, 46, 4789-4797  Reversible cellular automata with memory: two-dimensional patterns from a single site seed. Physica D: Nonlinear Phenomena, 2003, 175, 1-30  Enhancing evolvability with mutation buffering mediated through multiple weak interactions. BioSystems, 2003, 69, 127-42	10 45 3
866 865 864 863	. 2003, 8, 5-25  A numerical simulation of pool boiling using CAS model. 2003, 46, 4789-4797  Reversible cellular automata with memory: two-dimensional patterns from a single site seed. Physica D: Nonlinear Phenomena, 2003, 175, 1-30  Enhancing evolvability with mutation buffering mediated through multiple weak interactions. BioSystems, 2003, 69, 127-42  Cellular automata and intermediate degrees. 2003, 296, 365-375  Modelling dynamic spatial processes: simulation of urban future scenarios through cellular	10 45 3 14

858	Cellular automaton model for the simulation of laser dynamics. 2003, 67, 066708	23
857	Mixed system and component level T-CAD for micro fabrication.	
856	Artificial Societies: Multiagent Systems and the Micro-Macro Link in Sociological Theory. <b>2003</b> , 31, 325-363	97
855	Information content in the Nagel-Schreckenberg cellular automaton traffic model. 2003, 67, 047103	
854	Understanding Urban Growth: a Conceptual Model. 2003, 7, 83-101	2
853	COMPLEXITY: METRICS AND MODULES. <b>2003</b> , 06, 313-329	2
852	Research of a Cellular Automaton Simulating Logic Gates by Evolutionary Algorithms. 2003, 414-423	11
851	Simulated electrocortical activity at microscopic, mesoscopic, and global scales. <b>2003</b> , 28 Suppl 1, S80-93	34
850	On a pulse-coupled network of spiking neurons having quantized state.	
849	Phase Transitions in Self-Organising Sensor Networks. <b>2003</b> , 781-791	9
848	A Mean-Field Theory of Cellular Automata Model for Distributed Packet Networks. 2004, 773-783	1
847	On reversibility of cellular automata with periodic boundary conditions. <b>2004</b> , 37, 5789-5804	19
846	Sierpinski signal generates 1/f alpha spectra. <b>2004</b> , 70, 032101	9
845	Computational irreducibility and the predictability of complex physical systems. <b>2004</b> , 92, 074105	47
844	Zoning grassland protection area by using remote sensing and cellular automata model with a case study in Xilingol "typical steppe" grassland in northern China.	1
843	GLOBALLY SYNCHRONIZED OSCILLATIONS IN AN ONE-DIMENSIONAL CELLULAR AUTOMATON. <b>2004</b> , 15, 409-425	
842	Emergence and Universal Computation. <b>2004</b> , 55, 219-238	6
841	Charting epilepsy by searching for intelligence in network space with the help of evolving autonomous agents. <b>2004</b> , 98, 507-29	13

840	Digital circuit design using intrinsic evolvable hardware.	19
839	From stochastic partial difference equations to stochastic cellular automata through the ultra-discretization. <b>2004</b> , 155, 727-735	2
838	Self-organising behaviour in the presence of negative externalities: A conceptual model of commuter choice. <b>2004</b> , 157, 501-513	13
837	Spatial pattern formation in asynchronous cellular automata with mass conservation. <b>2004</b> , 343, 185-200	15
836	Assessing cellular automata based models using partial differential equations. <b>2004</b> , 40, 977-994	3
835	Spontaneous emergence of complex optimal networks through evolutionary adaptation. <b>2004</b> , 28, 1789-1798	38
834		1
833	Self-organized pattern formation and noise-induced control based on particle computations. <b>2005</b> , 2005, L12001-L12001	6
832	Self-deployment, Self-configuration:Critical Future Paradigms for Wireless Access Networks. <b>2005</b> , 58-68	17
831	Evolving the Game of Life. <b>2005</b> , 132-146	2
830	Cellular Automata, PDEs, and Pattern Formation. 2005, 18-273-18-284	1
829	Overgrowth competition, fragmentation and sex-ratio dynamics: a spatially explicit, sub-individual-based model. <b>2005</b> , 233, 25-42	22
828	On connectivity of reconfigurable impact networks in ageless aerospace vehicles. <b>2005</b> , 53, 36-58	20
827	Spontaneous emergence of spatio-temporal order in class 4 automata. <b>2005</b> , 356, 78-82	7
826	Cellular automata models of road traffic. <b>2005</b> , 419, 1-64	378
825	Topology regulates pattern formation capacity of binary cellular automata on graphs. <b>2005</b> , 354, 641-662	35
824	Algebraic properties of some quadratic dynamical systems. <b>2005</b> , 35, 407-432	2

822	Control of spatiotemporal chaos: dependence of the minimum pinning distance on the spatial measure entropy. <b>2005</b> , 33, 279-283	9
821	Genetically modified crops and agricultural landscapes: spatial patterns of contamination. <b>2005</b> , 53, 387-401	41
820	Autonomous indefiniteness versus external indefiniteness: Theory of weak topped ?-structure and its application to elementary local cellular automaton. <i>Physica D: Nonlinear Phenomena</i> , <b>2005</b> , 202, 71-9 $4^{3\cdot3}$	2
819	Emergent patterning phenomena in 2D cellular automata. <i>Artificial Life</i> , <b>2005</b> , 11, 339-62	27
818	HIGHER ORDER CELLULAR AUTOMATA. <b>2005</b> , 08, 169-192	12
817	1/f(alpha) spectra in elementary cellular automata and fractal signals. <b>2005</b> , 71, 067103	14
816	Phase transitions of extended-range probabilistic cellular automata with two absorbing states. <b>2005</b> , 71, 046108	6
815	A hardware-in-the-loop system to evaluate the performance of small-world cellular automata.	
814	TIME EVOLUTION OF CIRCULAR CELLULAR AUTOMATA ON SQUARE LATTICES. <b>2005</b> , 16, 745-755	2
813	The Density Classification Problem for Multi-states Cellular Automata. <b>2005</b> , 443-452	
812	VLSI characteristic of cellular automata and LFSR.	
811	Cellular automata in generative electronic music and sonic art: a historical and technical review. <b>2005</b> , 16, 165-185	22
810	Synthesis of binary cellular automata based on binary neural networks.	2
809	On a hardware architecture for the evolution of cellular automata functionality.	
808	Novel digital spiking neuron and its pulse-coupled network: spike position coding and multiplex communication.	4
807	Complexity, emergence and cellular urban models: lessons learned from applying SLEUTH to two Portuguese metropolitan areas. <b>2005</b> , 13, 93-115	74
806	Low-power test pattern generator design for BIST via non-uniform cellular automata.	3
805	Zoning grassland protection area using remote sensing and cellular automata modeling acase study in Xilingol steppe grassland in northern China. <b>2005</b> , 63, 814-826	81

## (2006-2005)

804	Control and Mechanical Characteristics of Hierarchical Modular Structures. 2005,	2
803	Adaptive Agents and Multi-Agent Systems II. 2005,	3
802	Unifying Themes in Complex Systems. <b>2006</b> ,	
801	Collective Beings. <b>2006</b> ,	3
800	Consciousness, Neurobiology and Quantum Mechanics: The Case for a Connection. <b>2006</b> , 193-253	21
799	Engineering Self-Organising Systems. <b>2006</b> ,	5
798	Hidden potentialities. <b>2006</b> , 35, 461-469	1
797	Coarse-graining of cellular automata, emergence, and the predictability of complex systems. <b>2006</b> , 73, 026203	45
796	Pattern generation using likelihood inference for cellular automata. <b>2006</b> , 15, 1718-27	9
795	The use of Cellular Automata in the learning of emergence. <b>2006</b> , 47, 280-297	10
794	Multiprocessor scheduling and rescheduling with use of cellular automata and artificial immune system support. <b>2006</b> , 17, 253-262	44
793	Computational modelling and simulation of the immune system. <b>2006</b> , 2, 63-88	14
792	Memory in astrocytes: a hypothesis. <b>2006</b> , 3, 2	24
791	Coupled simulation of regional land use change and soil carbon sequestration: A case study for the state of Hesse in Germany. <b>2006</b> , 21, 1430-1446	24
790	Complex systems: Network thinking. <b>2006</b> , 170, 1194-1212	199
789	Dynamics of three-state excitable units on Poisson vs. power-law random networks. <b>2006</b> , 367, 595-612	10
788	Cell-centric heuristics for the classification of cellular automata. <b>2006</b> , 32, 44-66	2
787	Translation of energy into morphology: Simulation of stromatolite morphospace using a stochastic model. <b>2006</b> , 185, 185-203	77

786	Lattice Boltzmann Simulation of Fluid Flow in Synthetic Fractures. 2006, 65, 363-384		51
7 <sup>8</sup> 5	Fully asynchronous behavior of double-quiescent elementary cellular automata. <b>2006</b> , 362, 1-16		59
784	Bibliography. <b>2006</b> , 259-282		
783	Power Laws, Scale-Free Networks and Genome Biology. <b>2006</b> ,		22
782	Cellular Automata-Based Scheduling: A New Approach to Improve Generalization Ability of Evolved Rules. <b>2006</b> ,		6
781	Genetic Learning of Digital Three-Layer Perceptrons for Implementation of Binary Cellular Automata		3
780	Various spike-trains from a digital spiking neuron: analysis of inter-spike intervals and their modulation. <b>2006</b> ,		2
779	Reconfigurable Digital Spiking Neuron and Its Pulse-Coupled Network: Basic Characteristics and Potential Applications. <b>2006</b> , 53, 734-738		28
778	EVOLVING INDUCTIVE GENERALIZATION VIA GENETIC SELF-ASSEMBLY. 2006, 09, 1-29		10
777	NONINVERTIBLE TRANSFORMATIONS AND SPATIOTEMPORAL RANDOMNESS. <b>2006</b> , 16, 3369-3381		2
776	SCALING PHENOMENA IN THE SLOPE SYSTEM. <b>2006</b> , 14, 295-302		4
775	The Emerging Physics of Consciousness. <b>2006</b> ,		9
774	EXTENDING CHUA'S GLOBAL EQUIVALENCE THEOREM ON WOLFRAM'S NEW KIND OF SCIENCE. <b>2007</b> , 17, 4245-4259		14
773	PARALLELIZING THREE DIMENSIONAL CELLULAR AUTOMATA WITH OpenMP. <b>2007</b> , 17, 349-361		
772	EFFECT OF MEMORY ON BOOLEAN NETWORKS WITH DISORDERED DYNAMICS: THE K = 4 CASE. <b>2007</b> , 18, 1313-1327		11
771	A Hybrid Optimization Method Based on Cellular Automata and its Application in Soft-Sensing Modeling. <b>2007</b> ,		
770	The self-construction and -repair of a foraging organism by explicitly specified development from a single cell. <i>Artificial Life</i> , <b>2007</b> , 13, 347-68	1.4	6
769	Linearizable cellular automata. <b>2007</b> , 40, 7159-7174		1

## (2008-2007)

768	Network analysis of the state space of discrete dynamical systems. <b>2007</b> , 98, 198701	19
767	Fracture Toughness Calculation by Movable Cellular Automata Method. <b>2007</b> , 353-358, 774-779	1
766	Damage spreading and -sensitivity on cellular automata. <b>2007</b> , 27, 545	3
765	Biodiversity conservation, traditional agriculture and ecotourism: Land cover/land use change projections for a natural protected area in the northeastern Yucatan Peninsula, Mexico. <b>2007</b> , 83, 137-153	70
764	A novel cellular automata based approach to storm sewer design. <b>2007</b> , 39, 345-364	42
763	A Genetic approach to search for glider guns in cellular automata. 2007,	1
762	Evolving Biological Behavior in Gene-Based Cellular Simulations. 2007,	
761	Generative Network Automata: A Generalized Framework for Modeling Complex Dynamical Systems with Autonomously Varying Topologies. <b>2007</b> ,	13
760	Using Chemical Cellular Automata in Simulation of Chemical Materials. 2007,	2
759	On the dynamics of cellular automata induced from a prefix code. <b>2007</b> , 38, 27-53	8
758	Evolutionary Markovian strategies in spatial games. <b>2007</b> , 375, 323-335	7
757	Long-range memory elementary 1D cellular automata: Dynamics and nonextensivity. <b>2007</b> , 379, 465-470	7
756	Synchronization and predictability under rule 52, a cellular automaton reputedly of class 4. <b>2007</b> , 366, 25-29	5
755	Set theoretical and algebraic model for redundancies in the genetic code. <b>2007</b> , 1,	
754	An automata networks based preprocessing technique for artificial neural network modelling of primary production levels in reservoirs. <b>2007</b> , 201, 359-368	4
753	Visual transformation for interactive spatiotemporal data mining. <b>2007</b> , 13, 119-142	12
75 <sup>2</sup>	Evolutionary games on graphs. <b>2007</b> , 446, 97-216	1964
751	Artificial Intelligence techniques: An introduction to their use for modelling environmental systems. <b>2008</b> , 78, 379-400	167

75 <sup>0</sup>	Lattice-driven cellular automata implementing local semantics. <i>Physica D: Nonlinear Phenomena</i> , <b>2008</b> , 237, 187-197	3.3	3
749	Emergence and Adaptation. 2008, 18, 493-520		10
748	Reverse engineering of spatial patterns in cellular automata. <b>2008</b> , 13, 172-175		5
747	Robustness in regulatory networks: a multi-disciplinary approach. <b>2008</b> , 56, 27-49		42
746	Analog computation through high-dimensional physical chaotic neuro-dynamics. <i>Physica D: Nonlinear Phenomena</i> , <b>2008</b> , 237, 1215-1225	3.3	30
745	Boolean delay equations: A simple way of looking at complex systems. <i>Physica D: Nonlinear Phenomena</i> , <b>2008</b> , 237, 2967-2986	3.3	50
744	Directional dynamics for cellular automata: A sensitivity to initial condition approach. <b>2008</b> , 400, 1-18		37
743	Digital spiking neuron and its learning for approximation of various spike-trains. <b>2008</b> , 21, 140-9		31
742	. <b>2008</b> , 2, 198-208		3
741	Computational complexity of dynamical systems: The case of cellular automata. <b>2008</b> , 206, 1104-1116		19
740	A cellular automata model for population expansion of Spartina alterniflora at Jiuduansha Shoals, Shanghai, China. <b>2008</b> , 77, 47-55		40
739	Artificial Evolution. 2008,		
738	Strategies and Tactics in Supply Chain Event Management. 2008,		2
737	An analysis of emerging behaviors in large-scale queueing-based service systems using agent-based simulation. <b>2008</b> ,		4
736	Integral Foam Molding of Light Metals. 2008,		
735	An approach to prediction of spatio-temporal patterns based on binary neural networks and cellular automata. <b>2008</b> ,		1
734	ON MEMORY AND STRUCTURAL DYNAMISM IN EXCITABLE CELLULAR AUTOMATA WITH DEFENSIVE INHIBITION. <b>2008</b> , 18, 527-539		5
733	THE EFFECT OF MEMORY IN CELLULAR AUTOMATA ON SCALE-FREE NETWORKS: THE \$overline{K}=4\$ CASE. <b>2008</b> , 18, 2477-2486		5

732	Cellar Automaton Model for Railway Transportation Safety System. 2008,	1
731	When are cellular automata random?. <b>2008</b> , 84, 50005	
730	Study on the unified framework of traffic modelling and simulation based on the multi-dimensional spatio-temporal model. <b>2008</b> ,	
729	Artificial ant colony foraging simulation and emergent property analysis. 2008,	1
728	Performance Analysis of the CPLD/FPGA Implementation of Cellular Automata. 2008,	3
727	Topological Entropy and Complexity of One Class of Cellular Automata Rules. 2008,	O
726	Emergence Made Ontological? Computational versus Combinatorial Approaches. 2008, 75, 595-607	14
725	Modeling and Processing Using Reversible Conservative Noisy Elementary Cellular Automata Circuits and their M-Ary Quantum Computing. <b>2008</b> , 14, 177-206	
724	A very effective density classifier two-dimensional cellular automaton with memory. <b>2009</b> , 42, 485101	5
723	A GA-based flexible learning algorithm with error tolerance for digital binary neural networks. <b>2009</b> ,	4
722	State-dependent computation using coupled recurrent networks. <b>2009</b> , 21, 478-509	63
721	On the robustness of NK-Kauffman networks against changes in their connections and Boolean functions. <b>2009</b> , 50, 043513	5
720	The discrete dynamics of developmental systems. 2009,	4
719	Intelligent agents behavior in the queueing Process: Integrating cellular automata & Genetic Algorithms. <b>2009</b> ,	Ο
718	A SPECTRAL METHOD FOR AGGREGATING VARIABLES IN LINEAR DYNAMICAL SYSTEMS WITH APPLICATION TO CELLULAR AUTOMATA RENORMALIZATION. <b>2009</b> , 12, 131-155	13
717	DIFFERENCE EQUATIONS FOR CELLULAR AUTOMATA. <b>2009</b> , 19, 805-830	6
716	ON THE DYNAMICAL BEHAVIOR OF CELLULAR AUTOMATA. <b>2009</b> , 19, 1147-1156	5
715	A topological classification of D-dimensional cellular automata. <b>2009</b> , 24, 45-61	1

714	Exact quantification of the complexity of spacewise pattern growth in cellular automata. <b>2009</b> , 42, 395003	2
713	Ramifying feedback networks, cross-scale interactions, and emergent quasi individuals in Conway's game of Life. <i>Artificial Life</i> , <b>2009</b> , 15, 351-75	6
712	Stem cell decision making and critical-like exploratory networks. <b>2009</b> , 2, 165-77	16
711	Genetic approaches to search for computing patterns in cellular automata. <b>2009</b> , 4, 20-28	11
710	Ecological risk assessment of genetically modified crops based on cellular automata modeling. <b>2009</b> , 27, 1132-1136	7
709	An information-theoretic primer on complexity, self-organization, and emergence. <b>2009</b> , 15, 11-28	174
708	Are complex systems hard to evolve?. <b>2009</b> , 14, 15-20	7
707	Reverse engineering of spatiotemporal patterns in the spatial prisoner dilemma. 2009, 14, 498-501	1
706	Outer-totalistic cellular automata on graphs. <b>2009</b> , 373, 546-549	25
705	Modeling crowd evacuation of a building based on seven methodological approaches. <b>2009</b> , 44, 437-445	391
704	Morphogenesis by coupled regulatory networks: reliable control of positional information and proportion regulation. <b>2009</b> , 261, 176-93	7
703	Symbolics dynamics of elementary cellular automata rule 88. <i>Nonlinear Dynamics</i> , <b>2009</b> , 58, 431-442 5	3
702	Complex systems: An introduction. <b>2009</b> , 14, 761-781	2
701	A dynamical study of a cellular automata model of the spread of HIV in a lymph node. <b>2009</b> , 71, 25-74	21
700	On the dynamics and recursive properties of multidimensional symbolic systems. <b>2009</b> , 176, 131-167	62
699	Complex dynamics of cellular automata rule 119. <b>2009</b> , 388, 984-990	5
698	Modeling urban growth using a variable grid cellular automaton. <b>2009</b> , 33, 35-43	112
697	The self-affine property of . <b>2009</b> , 157, 3728-3742	

696	Characterization of Single Cycle CA and its Application in Pattern Classification. 2009, 252, 181-203		19
695	Information processing mechanisms in microtubules at physiological temperature: Model predictions for experimental tests. <i>BioSystems</i> , <b>2009</b> , 97, 28-34	1.9	24
694	An algorithm for testing permutativeness of cellular automata. <b>2009</b> , 43, 323-330		
693	On the Asymptotic Behavior of Fuzzy Cellular Automata. <b>2009</b> , 252, 23-40		8
692	Integrating GIS with Cellular Automaton Model for Railway Transportation Safety System. 2009,		2
691	SpaceIIime Patterns of Urban Sprawl, a 1D Cellular Automata and Microeconomic Approach. <b>2009</b> , 36, 968-988		11
690	Research for Spatio-Temporal Modeling Approach of Railway Safety System Based on Hybrid Cellular Automata. <b>2009</b> ,		
689	Learning of Digital Spiking Neuron and its Application Potentials. <i>Understanding Complex Systems</i> , <b>2009</b> , 273-285	0.4	1
688	Adaptive Networks. <i>Understanding Complex Systems</i> , <b>2009</b> ,	0.4	130
687	Multifractal properties of elementary cellular automata in a discrete wavelet approach of MF-DFA. <b>2009</b> , 87, 28003		22
686	Gliders, Collisions and Chaos of Cellular Automata Rule 62. <b>2009</b> ,		
685	. 2009,		
684	A Network Emergent Computing Model Based on Cellular Automaton. 2009,		
683	Encyclopedia of Complexity and Systems Science. <b>2009</b> , 5466-5482		1
682	Surface Instabilities of Ferrofluids. <b>2009</b> , 1-91		13
681	MEMRISTOR CELLULAR AUTOMATA AND MEMRISTOR DISCRETE-TIME CELLULAR NEURAL NETWORKS. <b>2009</b> , 19, 3605-3656		253
680	Complete sets of initial vectors for pattern growth with elementary cellular automata. <b>2010</b> , 181, 750-75	55	3
679	Eliminating the mystery from the concept of emergence. <b>2010</b> , 25, 843-849		9

678	Stochastic automated search methods in cellular automata: the discovery of tens of thousands of glider guns. <b>2010</b> , 9, 513-543	3
677	Ecological hierarchies and self-organisation Pattern analysis, modelling and process integration across scales. <b>2010</b> , 11, 572-581	15
676	How to make dull cellular automata complex by adding memory: Rule 126 case study. <b>2010</b> , 15, NA-NA	1
675	A novel cellular automata based technique for visual multimedia content encryption. <b>2010</b> , 283, 4250-4260	29
674	Fuel management optimization based on power profile by Cellular Automata. <b>2010</b> , 37, 1712-1722	1
673	Evaluation of dynamic behavior forecasting parameters in the process of transition rule induction of unidimensional cellular automata. <i>BioSystems</i> , <b>2010</b> , 99, 6-16	2
672	Origins of learned reciprocity in solitary ciliates searching grouped 'courting' assurances at quantum efficiencies. <i>BioSystems</i> , <b>2010</b> , 99, 27-41	17
671	Sociospatial Residential Dynamics: Stability and Instability within a Self-Organizing City. <b>2010</b> , 26, 321-340	68
670	Exploring Spatial Process Dynamics Using Irregular Cellular Automaton Models. <b>2010</b> , 33, 1-18	47
669	. 2010,	12
669	. 2010, Origins of life: computing and simulation approaches. 66-82	12
		12
668	Origins of life: computing and simulation approaches. 66-82	
668	Origins of life: computing and simulation approaches. 66-82  Network Dynamics as an Interface between Modeling and Experiment in Systems Biology. 2010, 243-276	2
668 667 666	Origins of life: computing and simulation approaches. 66-82  Network Dynamics as an Interface between Modeling and Experiment in Systems Biology. 2010, 243-276  Exploring Ancient Architectural Designs with Cellular Automata. 2010,	2
668 667 666	Origins of life: computing and simulation approaches. 66-82  Network Dynamics as an Interface between Modeling and Experiment in Systems Biology. 2010, 243-276  Exploring Ancient Architectural Designs with Cellular Automata. 2010,  Hayek, Keynes, and Modern Macroeconomics. 2010,	2 4
668 667 666 665	Origins of life: computing and simulation approaches. 66-82  Network Dynamics as an Interface between Modeling and Experiment in Systems Biology. 2010, 243-276  Exploring Ancient Architectural Designs with Cellular Automata. 2010,  Hayek, Keynes, and Modern Macroeconomics. 2010,  Electroactive Polymer Gel Robots. 2010,	2 4 1

## (2010-2010)

660 . 2010, Exploratory analysis of spatiotemporal patterns of cellular automata by clustering compressibility. 659 2010, 81, 026103 SYNCHRONIZATION OF ONE-DIMENSIONAL STOCHASTICALLY COUPLED CELLULAR AUTOMATA. 658 1 **2010**, 21, 513-522 A METHOD FOR FINDING AGGREGATED REPRESENTATIONS OF LINEAR DYNAMICAL SYSTEMS. 657 13 2010, 13, 199-215 656 THE HPP RULE WITH MEMORY AND THE DENSITY CLASSIFICATION TASK. 2010, 21, 1115-1128 2 The salt marsh vegetation dynamics analysis with GeoCA-wetland-landscape. 2010, 655 Trajectories and attractors as specification for the evolution of behaviour in cellular automata. 654 5 2010, Digital spike maps and learning of spike signals. 2010, 653 3 CA-based generator of S-boxes for cryptography use. 2010, 652 2 Permutation complexity of spatiotemporal dynamics. 2010, 90, 10007 651 Complex interaction. **2010**, 17, 1-32 650 22 Complex urban system simulations based on generalized information entropy principle. 2010, 649 Connectivity, dynamics, and memory in reservoir computing with binary and analog neurons. 2010, 648 103 22, 1272-311 A Novel Hybrid Spiking Neuron: Bifurcations, Responses, and On-Chip Learning. 2010, 57, 2168-2181 48 647 Past, Present, and Future: Microbial Mats as Models for Astrobiological Research. 2010, 563-582 646 5 645 Cooperativity at different space and time scales in multiscale protein dynamics. 2010, 82, 016213 Is a transdisciplinary perspective on economic complexity possible?. 2010, 75, 3-11 644 24 Dynamic binary neural networks and evolutionary learning. 2010, 643 2

642	Game of Life Cellular Automata. <b>2010</b> ,		44
641	Computer and Computing Technologies in Agriculture III. <b>2010</b> ,		13
640	Microbial Mats. 2010,		29
639	Phenomenological study of irregular cellular automata based on Lyapunov exponents and Jacobians. <i>Chaos</i> , <b>2010</b> , 20, 033112	3.3	27
638	A cellular automata model for population dynamics simulation of two plant species with different life strategies. <b>2010</b> ,		
637	Subsystems and Glider Dynamics of Hyper Bernoulli CA Rule 26. <b>2010</b> ,		
636	. 2010,		43
635	Topological Conjugacy Classification of Two-Dimensional Cellular Automata. <b>2011</b> ,		
634	. 2011,		
633	Partial information decomposition as a spatiotemporal filter. <i>Chaos</i> , <b>2011</b> , 21, 037104	3.3	16
632	On the topological sensitivity of cellular automata. <i>Chaos</i> , <b>2011</b> , 21, 023108	3.3	8
631	Wildland fire spread modelling using cellular automata: evolution in large-scale spatially heterogeneous environments under fire suppression tactics. <b>2011</b> , 20, 633		27
630	Ecological benefits assessment and spatial modeling of urban ecosystem for controlling urban sprawl in Eastern Beijing, China. <b>2011</b> , 8, 153-160		16
629	Computational Molecular Engineering for Nanodevices and Nanosystems. <b>2011</b> , 347-383		
628	Foundations of Simulation Modeling. <b>2011</b> ,		0
627	. 2011,		9
626	References. <b>2011</b> , 233-246		

624	Non-Brownian Phase Space Dynamics of Molecules, the Nature of their Vibrational States, and Non-RRKM Kinetics. <b>2011</b> , 83-122	5
623	Information Processing by Local and Global Nonlinear Dynamics. <b>2011</b> , 4, 198-214	
622	Self-Organizing Digital Spike Maps for Learning of Spike-Trains. <b>2011</b> , E94-A, 2845-2852	3
621	Topological chaos of universal elementary cellular automata rule. <i>Nonlinear Dynamics</i> , <b>2011</b> , 63, 217-222 <sub>5</sub>	6
620	Using cellular automata for porous media simulation. <b>2011</b> , 57, 121-131	14
619	GPGPU computation and visualization of three-dimensional cellular automata. <b>2011</b> , 27, 67-81	8
618	An adaptive and robust biological network based on the vacant-particle transportation model. <b>2011</b> , 272, 187-200	43
617	Stochastic cellular automata model and Monte Carlo simulations of CD4+ T cell dynamics with a proposed alternative leukapheresis treatment for HIV/AIDS. <b>2011</b> , 41, 546-58	11
616	Evaluating the effect of using different sets of enrichment for FAs on fuel management optimization using CA. <b>2011</b> , 38, 835-845	1
615	Modeling hysteretic nonlinear behavior of bridge aerodynamics via cellular automata nested neural network. <b>2011</b> , 99, 378-388	81
614	Discrete dynamics of cellular machines. <b>2011</b> ,	
613	On the correlations between developmental diversity and genomic composition. <b>2011</b> ,	2
612	Identifying patterns from one-rule-firing cellular automata. <i>Artificial Life</i> , <b>2011</b> , 17, 21-32	1
611	BACK MATTER. <b>2011</b> , 343-465	
610	Emerging properties of financial time series in the "Game of Life". <b>2011</b> , 84, 066104	
609	Dual-phase evolution in complex adaptive systems. <b>2011</b> , 8, 609-29	34
608	Diagnosing mitral valve prolapse by improving the predictive power of classifiers. <b>2011</b> , 39, 1075-83	
607	Complex Evolutionary Dynamics in Urban-Regional and Ecologic-Economic Systems. 2011,	26

606	ARTIFICIAL MICRO-WORLDS PART III: A TAXONOMY OF SELF-REPRODUCING 2D CA SPECIES. <b>2011</b> , 21, 1233-1263	7
605	ON THE STRUCTURE OF REAL-VALUED ONE-DIMENSIONAL CELLULAR AUTOMATA. <b>2011</b> , 21, 1265-1279	5
604	Advances in Artificial Life. Darwin Meets von Neumann. 2011,	
603	Complex Dynamic Behaviors in Cellular Automata Rule 14. <b>2012</b> , 2012, 1-12	2
602	Disentangling Complexity from Randomness and Chaos. <b>2012</b> , 14, 177-212	11
601	Softening the Complexity of Entropic Motion on Curved Statistical Manifolds. <b>2012</b> , 19, 1250001	10
600	Z2-algebras in the Boolean function irreducible decomposition. <b>2012</b> , 53, 023516	1
599	COMPLEX DYNAMICS OF ELEMENTARY CELLULAR AUTOMATA EMERGING FROM CHAOTIC RULES. <b>2012</b> , 22, 1250023	25
598	DIRECT COUNTING ANALYSIS ON NETWORK GENERATED BY DISCRETE DYNAMICS. <b>2012</b> , 26, 1250023	1
597	Unconventional Computation and Natural Computation. 2012,	4
596	Counting Cycles in Reversible Cellular Automata. <b>2012</b> , 11-19	
595	Social biases determine spatiotemporal sparseness of ciliate mating heuristics. <b>2012</b> , 5, 3-11	7
594	Chaos emerged on the ፼dge of chaos□ <b>2012</b> , 89, 1584-1595	2
593	Cellular Resource-Driven Automata. <b>2012</b> , 120, 243-257	3
592	Control of cellular automata. <b>2012</b> , 86, 066201	13
591	Astrobiological complexity with probabilistic cellular automata. <b>2012</b> , 42, 347-71	17
590	Fuzzy cognitive maps and cellular automata: An evolutionary approach for social systems modelling. <b>2012</b> , 12, 3771-3784	38
589	Accelerating agent-based computation of complex urban systems. <b>2012</b> , 26, 1917-1937	18

588	Cauchy-Euler model, cellular automata simulation of the rate of recovery of the infected airway from COPD. <b>2012</b> ,		1
587	Cellular automata model based on machine learning methods for simulating land use change. 2012,		
586	Single parent generalization of cellular automata rules. 2012,		О
585	Universalities in Cellular Automata*. <b>2012</b> , 189-229		4
584	Universal map for cellular automata. <b>2012</b> , 376, 2645-2657		17
583	Emergence and complexity in Austrian economics. <b>2012</b> , 81, 122-128		24
582	Rationality, Stability, and Endogenous Price Formation in Spatially Interdependent Markets. <b>2012</b> , 44, 538-559		6
581	Complexity and information: Measuring emergence, self-organization, and homeostasis at multiple scales. <b>2012</b> , 18, 29-44		99
580	Neuronal avalanches and coherence potentials. <b>2012</b> , 205, 259-301		51
579	Universal construction mechanism for networks from one-dimensional symbol sequences. <b>2012</b> , 219, 1020-1030		2
578	Parallel dynamical systems over directed dependency graphs. <b>2012</b> , 219, 1114-1119		26
577	Universality, Turing Incompleteness and Observers. <b>2012</b> , 435-449		
576	ACCESS TO INFORMATION IN WORD OF MOUTH MARKETING WITHIN A CELLULAR AUTOMATA MODEL. <b>2012</b> , 15, 1250080		3
575	A full computation-relevant topological dynamics classification of elementary cellular automata. <i>Chaos</i> , <b>2012</b> , 22, 043143	3.3	18
574	Nonclassical Computation 🖟 Dynamical Systems Perspective. <b>2012</b> , 1979-2025		10
573	Cellular Automata on Graphs: Topological Properties of ER Graphs Evolved towards Low-Entropy Dynamics. <b>2012</b> , 14, 993-1010		8
572	Building blocks of self-sustained activity in a simple deterministic model of excitable neural networks. <i>Frontiers in Computational Neuroscience</i> , <b>2012</b> , 6, 50	3.5	29
571	Spatial dynamics of benthic competition on coral reefs. <b>2012</b> , 168, 1079-90		68

570	Detecting grain boundaries in deformed rocks using a cellular automata approach. 2012, 42, 136-142	30
569	Self-organizing circuitry and emergent computation in mouse embryonic stem cells. <b>2012</b> , 8, 324-33	16
568	Physical approach to complex systems. <b>2012</b> , 515, 115-226	285
567	Synchronous cellular automata-based scheduler initialized by heuristic and modeled by a pseudo-linear neighborhood. <b>2013</b> , 12, 339-351	4
566	Interference of Human Impacts in Urban Growth Modelling with Transition Rules of Cellular Automata, GIS and Multi-Temporal Satellite Imagery: A Case Study of Maraghe, Iran. <b>2013</b> , 41, 993-1008	4
565	Irreducibility and Computational Equivalence. <i>Emergence, Complexity and Computation</i> , <b>2013</b> , 0.1	1
564	Agent-based modeling and simulation of emergent behavior in air transportation. 2013, 1,	29
563	A cloud computing based framework for general 2D and 3D cellular automata simulation. <b>2013</b> , 65, 78-89	5
562	BACK MATTER. <b>2013</b> , 409-443	
561	Simulating Urban Growth in Nakuru (Kenya) Using Java-Based Modelling Platform XULU. <b>2013</b> ,	2
560	Evolutionary cellular automata bonsai. 2013,	O
559	Parallel dynamical systems over special digraph classes. <b>2013</b> , 90, 2039-2048	10
558	Parallel additive implementation for modified FIRS. 2013,	0
557	Origin of complexity and conditional predictability in cellular automata. <b>2013</b> , 88, 042814	13
556	New mathematics for old physics: The case of lattice fluids. <b>2013</b> , 44, 231-241	6
555	A spatially explicit agent-based simulation platform for investigating effects of shared pollination service on ecological communities. <b>2013</b> , 37, 107-124	11
554	Impartial games emulating one-dimensional cellular automata and undecidability. 2013, 120, 1116-1130	4
553	Cellular Automata: Models of the Physical World. <i>Emergence, Complexity and Computation</i> , <b>2013</b> , 3-10 0.1	

552	EXPRESSIVENESS OF ELEMENTARY CELLULAR AUTOMATA. <b>2013</b> , 24, 1350010	7
551	Design Versus Self-Organization. <b>2013</b> , 3-21	1
550	Pervasiveness of Universalities of Cellular Automata: Fascinating Life-Like Behaviours. <i>Emergence</i> , Complexity and Computation, <b>2013</b> , 199-210	
549	Quantum Cellular Automaton for Simulating Static Magnetic Fields. <b>2013</b> , 49, 1617-1620	4
548	Topology-induced phase transitions in totalistic cellular automata. <i>Physica D: Nonlinear Phenomena</i> , <b>2013</b> , 249, 16-24	4
547	Cellular Automata Model for Elastic Solid Material. <b>2013</b> , 59, 59-67	6
546	Complexities of Natural Selection Dynamics. <b>2013</b> , 429-442	
545	A Lyapunov View on the Stability of Two-State Cellular Automata. <i>Emergence, Complexity and Computation</i> , <b>2013</b> , 25-33	1
544	Wolfram Classification and Computation in Cellular Automata Classes III and IV. Emergence,  Complexity and Computation, 2013, 237-259	3
543	Influence of the topology of a cellular automaton on its dynamical properties. 2013, 18, 651-668	8
542	Symmetry analysis of cellular automata. <b>2013</b> , 377, 276-285	16
541	Corrupt organizations: modeling educators Imisconduct with cellular automata. 2013, 19, 1-24	7
540	Dynamic Behaviour of Chaotic Cellular Automata - A Comparative Entropy Analysis of Regular Lattices and Small-World Structures. <b>2013</b> ,	1
539	Phase transitions enable computational universality in neuristor-based cellular automata. <b>2013</b> , 24, 384002	37
538	Towards Managing Nonlinear Regional Development Trajectories. <b>2013</b> , 31, 556-570	15
537	Crossing pedestrian traffic flows, the diagonal stripe pattern, and the chevron effect. <b>2013</b> , 46, 345002	18
536	The conduciveness of CA-rule graphs. <i>Artificial Life</i> , <b>2013</b> , 19, 255-66	
535	The functional benefits of criticality in the cortex. <b>2013</b> , 19, 88-100	274

534	DESIGNING COMPLEX DYNAMICS IN CELLULAR AUTOMATA WITH MEMORY. <b>2013</b> , 23, 1330035		15
533	EPSA11 Perspectives and Foundational Problems in Philosophy of Science. 2013,		
532	Integrating remote sensing, GIS and dynamic models: Cellular automata approach for the simulation of urban growth for the city of Montreal. <b>2013</b> ,		1
531	2D ELEMENTARY CELLULAR AUTOMATA WITH FOUR NEIGHBORS. <b>2013</b> , 23, 1350060		1
530	References. <b>2013</b> , 271-298		
529	Traffic Accident Propagation Properties and Control Measures for Urban Links Based on Cellular Automata. <b>2013</b> , 5, 905640		2
528	Agent-Based Modeling and Simulation of Emergent Behavior in Air Transportation. 2013,		
527	. 2013,		74
526	Chaotic Behaviors of Symbolic Dynamics about Rule 58 in Cellular Automata. <b>2014</b> , 2014, 1-9		1
525	Innovations in Bio-inspired Computing and Applications. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> ,	0.4	1
524	Classifying elementary cellular automata using compressibility, diversity and sensitivity measures. <b>2014</b> , 25, 1350098		9
523	Simulations of living cell origins using a cellular automata model. <b>2014</b> , 44, 125-41		2
522	3D printing and simulation of naturally randomized cellular automata. <b>2014</b> , 19, 311-316		
522 521	3D printing and simulation of naturally randomized cellular automata. <b>2014</b> , 19, 311-316  Regulatory logic and pattern formation in the early sea urchin embryo. <b>2014</b> , 363, 80-92		2
			2 8
521	Regulatory logic and pattern formation in the early sea urchin embryo. <b>2014</b> , 363, 80-92  A Multitarget Land Use Change Simulation Model Based on Cellular Automata and Its Application.		
521 520	Regulatory logic and pattern formation in the early sea urchin embryo. <b>2014</b> , 363, 80-92  A Multitarget Land Use Change Simulation Model Based on Cellular Automata and Its Application. <b>2014</b> , 2014, 1-11		

516	Conway's Game of Life is a near-critical metastable state in the multiverse of cellular automata. <b>2014</b> , 89, 052123	9
515	Role of long cycles in excitable dynamics on graphs. <b>2014</b> , 90, 052805	13
514	The micro-dynamics of queuing: understanding the formation of queues. <b>2014</b> , 8, 304-313	12
513	A Framework for the Local Information Dynamics of Distributed Computation in Complex Systems.  Emergence, Complexity and Computation, 2014, 115-158	23
512	Cellular-Automaton-Based Node Scheduling Control for Wireless Sensor Networks. <b>2014</b> , 63, 3892-3899	16
511	A massively parallel cellular automaton for the simulation of recrystallization. <b>2014</b> , 22, 075016	14
510	Mapping an expanding territory: computer simulations in evolutionary biology. <b>2014</b> , 36, 60-89	8
509	Criticality in Cortex: Neuronal Avalanches and Coherence Potentials. <b>2014</b> , 5-42	4
508	Logic operations in memory using a memristive Akers array. <b>2014</b> , 45, 1429-1437	53
507	Effect of self-interaction on the phase diagram of a Gibbs-like measure derived by a reversible Probabilistic Cellular Automata. <b>2014</b> , 64, 36-47	6
506	Phase transition in NK-Kauffman networks and its correction for Boolean irreducibility. <i>Physica D: Nonlinear Phenomena</i> , <b>2014</b> , 275, 35-42	1
505	Achieving Residential Connectivity and Density Goals with Computer-Generated Plans in a Greenfield Area. <b>2014</b> , 41, 430-449	2
504	Research on structure emergence based on cellular automata. <b>2014</b> , 6, 126	3
503	On the decomposition of stochastic cellular automata. <b>2015</b> , 11, 245-257	4
502	An evolutionary approach to the identification of Cellular Automata based on partial observations. <b>2015</b> ,	3
501	Lempel-Ziv complexity analysis of one dimensional cellular automata. <i>Chaos</i> , <b>2015</b> , 25, 123106 3.3	9
500	Modeling Wireless Sensor Network Based on Non-Volatile Cellular Automata. <b>2015</b> , E98.B, 1294-1301	1
499	Memristor cellular automata through belief propagation inspired algorithm. 2015,	3

498	Statistical Mechanics of Surjective Cellular Automata. <b>2015</b> , 160, 1198-1243		13
497	Failure Propagation in Load-Sharing Complex Systems. <b>2015</b> , 79-106		
496	The Intrinsic Cause-Effect Power of Discrete Dynamical Systems From Elementary Cellular Automata to Adapting Animats. <b>2015</b> , 17, 5472-5502		28
495	Stabilization Methods for a Multiagent System with Complex Behaviours. <b>2015</b> , 2015, 236285		3
494	Self-Organizing Construction Method of Offshore Structures by Cellular Automata Model. <b>2015</b> , 2015, 1-7		
493	Parallel Dynamical Systems over Graphs and Related Topics: A Survey. <b>2015</b> , 2015, 1-14		20
492	Effects of Initial Symmetry on the Global Symmetry of One-Dimensional Legal Cellular Automata. <b>2015</b> , 7, 1768-1779		3
491	Quantum state transfer through noisy quantum cellular automata. <b>2015</b> , 48, 195304		3
490	Evolvable fashion-based cellular automata for generating cavern systems. 2015,		5
489	References. <b>2015</b> , 353-370		
488	Birkhoff's aesthetics, Arnheim's entropy. Some remarks on complexity and fuzzy entropy in arts. <b>2015</b> , 8, 1103		3
488 487		1.4	3
·	<b>2015</b> , 8, 1103	1.4	3 4
487	2015, 8, 1103  Cell-Division Behavior in a Heterogeneous Swarm Environment. <i>Artificial Life</i> , 2015, 21, 481-500	1.4 7.7	4
487 486	2015, 8, 1103  Cell-Division Behavior in a Heterogeneous Swarm Environment. <i>Artificial Life</i> , 2015, 21, 481-500  Evolution of 2D apoptotic cellular automata. 2015,  Reversibility of general 1D linear cellular automata over the binary field Z2 under null boundary		0
487 486 485	Cell-Division Behavior in a Heterogeneous Swarm Environment. <i>Artificial Life</i> , <b>2015</b> , 21, 481-500  Evolution of 2D apoptotic cellular automata. <b>2015</b> ,  Reversibility of general 1D linear cellular automata over the binary field Z2 under null boundary conditions. <i>Information Sciences</i> , <b>2015</b> , 324, 23-31		0 10
487 486 485 484	Cell-Division Behavior in a Heterogeneous Swarm Environment. <i>Artificial Life</i> , 2015, 21, 481-500  Evolution of 2D apoptotic cellular automata. 2015,  Reversibility of general 1D linear cellular automata over the binary field Z2 under null boundary conditions. <i>Information Sciences</i> , 2015, 324, 23-31  Failure risk propagation and protection schemes in coupled systems. 2015, 80, 62-75		4 0 10 5

480	Limit sets of stable cellular automata. <b>2015</b> , 35, 673-690	2
479	Ecological Continuum from the Changjiang (Yangtze River) Watersheds to the East China Sea Continental Margin. <b>2015</b> ,	3
478	Spatial Complexity Measure for Characterising Cellular Automata Generated 2D Patterns. <b>2015</b> , 201-212	7
477	A dynamical systems approach to the discrimination of the modes of operation of cryptographic systems. <b>2015</b> , 29, 102-115	2
476	An investigation of the efficient implementation of cellular automata on multi-core CPU and GPU hardware. <b>2015</b> , 77, 11-25	19
475	Three-state von Neumann cellular automata and pattern generation. <b>2015</b> , 39, 2003-2024	12
474	A classification of one-dimensional cellular automata using infinite computations. <b>2015</b> , 255, 15-24	29
473	A meshfree interface-finite element method for modelling isothermal solutal melting and solidification in binary systems. <b>2015</b> , 95, 20-41	3
472	An agent-based simulator driven by variants of Self-Organizing Maps. <b>2015</b> , 147, 207-224	8
47 <sup>1</sup>	Design and implementation of a genetic algorithm IP core on an FPGA for path planning of mobile robots. <b>2016</b> , 24, 5055-5067	4
470	A Local Land Use Competition Cellular Automata Model and Its Application. <b>2016</b> , 5, 106	30
469	A Comparative Study between the Dynamic Behaviours of Standard Cellular Automata and Network Cellular Automata Applied to Cryptography. <b>2016</b> , 31, 189-207	1
468	Multiscale modeling of brain dynamics: from single neurons and networks to mathematical tools. <b>2016</b> , 8, 438-58	16
467	References. 362-369	
466	A Morphogenetic Design Strategy Using a Composite CA Model. <b>2016</b> ,	
465	Validation and predictions of coupled finite element and cellular automata model: Influence of the degree of deformation on static recrystallization kinetics case study. <b>2016</b> , 179, 282-294	18
464	A Symbolic Dynamics Perspective of Conway® Game of Life. <b>2016</b> , 26, 1650035	
463	A cellular automata based highly accurate memory test hardware realizing March CII <b>2016</b> , 52, 91-103	4

462	The Density Classification Problem in the Context of Continuous Cellular Automata. 2016, 79-87	4
461	Busy beaver machines and the observant otter heuristic (or how to tame dreadful dragons). <b>2016</b> , 646, 61-85	1
460	Cyber security of smart grids modeled through epidemic models in cellular automata. <b>2016</b> ,	3
459	Spectral representations and global maps of cellular automata dynamics. <b>2016</b> , 91, 503-510	2
458	Land use scenarios and projections simulation using an integrated GIS cellular automata algorithms. <b>2016</b> , 2, 1	25
457	Impact of future urban growth on regional climate changes in the Seoul Metropolitan Area, Korea. <b>2016</b> , 571, 355-63	18
456	Memristor cellular automata for image pattern recognition and clinical applications. 2016,	3
455	Classification of cellular automata through texture analysis. <i>Information Sciences</i> , <b>2016</b> , 370-371, 33-49 $_{7.7}$	6
454	Extension of cellular automata via the introduction of an algorithm for the recursive estimation of neighbors. <b>2016</b> , 21, 338-344	2
453	Simulation of Rock Mass Horizontal Displacements with Usage of Cellular Automata Theory <b>2016</b> , 61, 749-763	7
452	Scenario Generation with Cellular Automaton for Game-Based Crisis Simulation System. 2016,	0
451	Asynchronous cellular automata and pattern classification. <b>2016</b> , 21, 370-386	14
450	Stability of Cellular Automata Trajectories Revisited: Branching Walks and Lyapunov Profiles. <b>2016</b> , 26, 1329-1367	3
449	Urban growth models: progress and perspective. <b>2016</b> , 61, 1637-1650	72
448	The inactiveEctive phase transition in the noisy additive (exclusive-or) probabilistic cellular automaton. <b>2016</b> , 27, 1650016	6
447	Unraveling simplicity in elementary cellular automata. <b>2016</b> , 641, 2-10	2
446	Characterization of random fluctuation-based computation in cellular automata. <i>Information Sciences</i> , <b>2016</b> , 352-353, 150-166	6
445	Analysis of information gain and Kolmogorov complexity for structural evaluation of cellular automata configurations. <b>2016</b> , 28, 155-170	3

444	Evolutionary potential games on lattices. <b>2016</b> , 624, 1-60	53
443	Selforganization in Complex Systems: The Past, Present, and Future of Synergetics. <i>Understanding Complex Systems</i> , <b>2016</b> ,	6
442	Stochastic modeling for dynamics of HIV-1 infection using cellular automata: A review. <b>2016</b> , 14, 1630001	6
441	Modelling and simulation of complex cellular models using Cell-DEVS. <b>2016</b> , 92, 101-115	2
440	Thinking platforms for smarter urban water systems: fusing technical and socio-economic models and tools. <b>2017</b> , 408, 201-219	10
439	Load Balancing at the Edge of Chaos: How Self-Organized Criticality Can Lead to Energy-Efficient Computing. <b>2017</b> , 28, 517-529	13
438	A cellular automaton model for ship traffic flow in waterways. <b>2017</b> , 471, 705-717	24
437	Generation and Exploration of Architectural Form Using a Composite Cellular Automata. <b>2017</b> , 99-110	O
436	Memristor-Based Platforms: A Comparison Between Continous-Time and Discrete-Time Cellular Neural Networks. <b>2017</b> , 65-79	
435	A common developmental program can produce diverse leaf shapes. <b>2017</b> , 216, 401-418	64
434	Cryptographic Nature. 157-173	2
433	Automata and Animats: From Dynamics to Cause <b>E</b> ffect Structures. 334-365	1
432	On periods and equilibria of computational sequential systems. <i>Information Sciences</i> , <b>2017</b> , 409-410, 27-34	22
431	Self-organisation in Cellular Automata with Coalescent Particles: Qualitative and Quantitative Approaches. <b>2017</b> , 167, 1180-1220	2
430	Complex Structures and Behavior from Elementary Adaptive Network Automata. 2017, 105-126	1
429	Impact of time delay on the dynamics of SEIR epidemic model using cellular automata. <b>2017</b> , 471, 114-125	34
428	Cellular Automata and Grossone Computations. <b>2017</b> , 316-337	
427	Discovery of Regular Domains in Large DNA Data Sets. <b>2017</b> ,	1

426	A DETERMINISTIC APPROACH TO THE SYNCHRONIZATION OF NONLINEAR CELLULAR AUTOMATA. <b>2017</b> , 20, 1750006	
425	Density-conserving affine continuous cellular automata solving the relaxed density classification problem. <b>2017</b> , 50, 345103	4
424	MULTIFRACTAL APPROACH TO THE ANALYSIS OF CRIME DYNAMICS: RESULTS FOR BURGLARY IN SAN FRANCISCO. <b>2017</b> , 25, 1750043	3
423	Glider Collisions in Hybrid Cellular Automaton with Memory Rule (43,74). <b>2017</b> , 27, 1750082	1
422	On the complexity and the information content of cosmic structures. <b>2017</b> , 465, 4942-4955	5
421	Utilization of cellular automata for analysis of the efficiency of urban freight transport measures based on loading/unloading bays example. <b>2017</b> , 25, 1021-1035	10
420	A multi-label cellular automata model for land change simulation. <b>2017</b> , 21, 1298-1320	11
419	Parameter Search for a Small Swarm of AUVs Using Particle Swarm Optimisation. 2017, 384-396	O
418	A Novel Osmosis-Inspired Algorithm for Multiobjective Optimization. <b>2017</b> , 80-88	1
417	Meta-Parametric Design. <b>2017</b> , 52, 73-95	33
416	A cellular automaton for the signed particle formulation of quantum mechanics. 2017, 468, 638-647	0
415	Computational Matter: Evolving Computational Functions in Nanoscale Materials. <i>Emergence</i> , Complexity and Computation, <b>2017</b> , 397-428	9
414	Conventional and Unconventional Approaches to Swarm Logic. <i>Emergence, Complexity and Computation</i> , <b>2017</b> , 711-734	2
413	Topological Conjugacy Classification of Elementary Cellular Automata with Majority Memory. <b>2017</b> , 27, 1750217	1
412	Number-conserving cellular automata with a von Neumann neighborhood of range one. <b>2017</b> , 50, 435101	7
411	Analyzing Information Distribution in Complex Systems. <b>2017</b> , 19, 636	5
410	Graph Cellular Automata with Relation-Based Neighbourhoods of Cells for Complex Systems Modelling: A Case of Traffic Simulation. <b>2017</b> , 9, 322	19
409	An Urban Cellular Automata Model for Simulating Dynamic States on a Local Scale. <b>2017</b> , 19, 12	3

408	Emergence of Distinct Spatial Patterns in Cellular Automata with Inertia: A Phase Transition-Like Behavior. <b>2017</b> , 19, 102		5
407	An Open Data Platform for Traffic Parameters Measurement via Multirotor Unmanned Aerial Vehicles Video. <b>2017</b> , 2017, 1-12		9
406	Remote Sensing, Gis and Cellular Automata for Urban Growth Simulation. 2017, 10, 38		2
405	An Array Database Approach for Earth Observation Data Management and Processing. 2017, 6, 220		7
404	Logical Gates via Gliders Collisions. Emergence, Complexity and Computation, 2018, 199-220	0.1	1
403	Complexity as a contrast between dynamics and phenomenology. <b>2018</b> , 63, 86-99		4
402	Information geometric methods for complexity. <i>Chaos</i> , <b>2018</b> , 28, 032101	3.3	29
401	Dynamical Criticality: Overview and Open Questions. <b>2018</b> , 31, 647-663		36
400	A Study of Chaos in Cellular Automata. <b>2018</b> , 28, 1830008		4
399	A model for analyzing phenomena in multicellular organisms with multivariable polynomials: Polynomial life. <b>2018</b> , 11, 1850007		
398	Sensitivity of Probable Maximum Flood in a Changing Environment. <b>2018</b> , 54, 3913-3936		17
397	Strategy and Performance of Knowledge Flow. <b>2018</b> ,		
396	Shift-equivalence of k-ary, one-dimensional cellular automata rules. <b>2018</b> , 63, 280-291		2
395	Modelling coastal land use change by incorporating spatial autocorrelation into cellular automata models. <b>2018</b> , 33, 470-488		30
394	Analysis of the environmental impacts of unloading bays based on cellular automata simulation. <b>2018</b> , 61, 104-117		45
393	How synapses can enhance sensibility of a neural network. <b>2018</b> , 492, 1045-1052		
392	Towards measuring the semantic capacity of a physical medium demonstrated with elementary cellular automata. <i>BioSystems</i> , <b>2018</b> , 164, 177-185	1.9	3
391	Improvement of False Report Detection Performance Based on Invalid Data Detection Using Neural Network in WSNF. <b>2018</b> , 10, 21-34		

390	Interleaved Cellular Automata, Evolved Artwork and Packing Problems. 2018,	1
389	Small-Angle Scattering Analysis of Fractals Generated by Additive Cellular Automata. 2018,	
388	Small-Angle Scattering from Mass and Surface Fractals. 2018,	3
387	Distributed Control of a Manufacturing System with One-Dimensional Cellular Automata. <b>2018</b> , 2018, 1-15	1
386	Modelling urban sprawl using fuzzy cellular automata model for the city of Jaipur. <b>2018</b> , 10, 285	2
385	Mathematical Modelling in Plant Biology. 2018,	4
384	Modeling Plant Development with L-Systems. <b>2018</b> , 139-169	5
383	An evolutionary analysis of Artificial Life publications. 2018,	
382	A Universal Platform that Emulates any Cellular Automaton. 2018,	
381	Regional Control of Probabilistic Cellular Automata. <b>2018</b> , 243-254	4
380	Aggregate Effects of Advertising Decisions: A Complex Systems Look at Search Engine Advertising Via an Experimental Study. <b>2018</b> ,	4
	Aggregate Effects of Advertising Decisions: A Complex Systems Look at Search Engine Advertising	16
380	Aggregate Effects of Advertising Decisions: A Complex Systems Look at Search Engine Advertising Via an Experimental Study. <b>2018</b> ,  An Information-Theoretic Approach to Self-Organisation: Emergence of Complex	
380	Aggregate Effects of Advertising Decisions: A Complex Systems Look at Search Engine Advertising Via an Experimental Study. 2018,  An Information-Theoretic Approach to Self-Organisation: Emergence of Complex Interdependencies in Coupled Dynamical Systems. 2018, 20,  Possibility of Controlling Self-Organized Patterns with Totalistic Cellular Automata Consisting of	16
380 379 378	Aggregate Effects of Advertising Decisions: A Complex Systems Look at Search Engine Advertising Via an Experimental Study. 2018,  An Information-Theoretic Approach to Self-Organisation: Emergence of Complex Interdependencies in Coupled Dynamical Systems. 2018, 20,  Possibility of Controlling Self-Organized Patterns with Totalistic Cellular Automata Consisting of Both Rules like Game of Life and Rules Producing Turing Patterns. 2018, 9,	16
380 379 378 377	Aggregate Effects of Advertising Decisions: A Complex Systems Look at Search Engine Advertising Via an Experimental Study. 2018,  An Information-Theoretic Approach to Self-Organisation: Emergence of Complex Interdependencies in Coupled Dynamical Systems. 2018, 20,  Possibility of Controlling Self-Organized Patterns with Totalistic Cellular Automata Consisting of Both Rules like Game of Life and Rules Producing Turing Patterns. 2018, 9,  Complex interactions in one-dimensional cellular automata and linguistic constructions. 2018, 12, 691-721	16 2 3
380 379 378 377 376	Aggregate Effects of Advertising Decisions: A Complex Systems Look at Search Engine Advertising Via an Experimental Study. 2018,  An Information-Theoretic Approach to Self-Organisation: Emergence of Complex Interdependencies in Coupled Dynamical Systems. 2018, 20,  Possibility of Controlling Self-Organized Patterns with Totalistic Cellular Automata Consisting of Both Rules like Game of Life and Rules Producing Turing Patterns. 2018, 9,  Complex interactions in one-dimensional cellular automata and linguistic constructions. 2018, 12, 691-721  Epistemic Communities in Urban Self-organization: A Systematic Review and Assessment. 2018, 33, 310-328  Complex spatiotemporal behavior and coherent excitations in critically-coupled chains of neural	16 2 3

372	Structural Properties of Additive Nano/Microcellular Automata. 2018, 530, 1800004		3
371	Efficiency Evaluation of Knowledge Flow in University-Industry Collaborative Innovation in China. <b>2018</b> , 29-48		O
370	Exploring Representation in Evolutionary Level Design. <b>2018</b> , 2, 1-155		0
369	Kauffman Cellular Automata on Quasicrystal Topology. <b>2018</b> , 48, 531-538		1
368	Anticorrelations between Active Brain Regions: An Agent-Based Model Simulation Study. <b>2018</b> , 2018, 6815040		1
367	Big Five Personality Traits and Knowledge Flow in University-Industry Collaborative Innovation. <b>2018</b> , 49-69		
366	The Open Computing Abstraction Layer for Parallel Complex Systems Modeling on Many-Core Systems. <b>2018</b> , 121, 53-70		13
365	Reservoir Computing with Computational Matter. <b>2018</b> , 269-293		7
364	Aggregate effects of advertising decisions. <b>2018</b> , 28, 1079-1102		7
363	Evolutionary Game Model of Knowledge Transfer in University-Industry Collaborative Innovation. <b>2018</b> , 95-108		
362	Colored Petri Net Model of Knowledge Flow Based on Knowledge Life Cycle. 2018, 83-94		2
361	Computational Matter. 2018,		8
360	Prebiotic Geochemical Automata at the Intersection of Radiolytic Chemistry, Physical Complexity, and Systems Biology. <b>2018</b> , 2018, 1-21		3
359	Authorship attribution based on Life-Like Network Automata. <b>2018</b> , 13, e0193703		8
358	Introduction. Emergence, Complexity and Computation, 2019, 1-26	0.1	
357	Conventional and Unconventional Automata on Swarm Behaviours. <i>Emergence, Complexity and Computation</i> , <b>2019</b> , 127-163	0.1	
356	Unconventional Computers Designed on Swarm Behaviours. <i>Emergence, Complexity and Computation</i> , <b>2019</b> , 73-126	0.1	
355	Behaviourism in Studying Swarms: Logical Models of Sensing and Motoring. <i>Emergence, Complexity and Computation</i> , <b>2019</b> ,	0.1	2

354	Solving reverse emergence with quantum PSO application to image processing. <b>2019</b> , 23, 6921-6935		13
353	Predecessors and Garden-of-Eden configurations in parallel dynamical systems on maxterm and minterm Boolean functions. <b>2019</b> , 348, 26-33		8
352	Guided Evolutionary Search for Boolean Networks in the Density Classification Problem. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 69-77	0.4	
351	Shift-symmetric configurations in two-dimensional cellular automata: Irreversibility, insolvability, and enumeration. <i>Chaos</i> , <b>2019</b> , 29, 063120	3.3	
350	Urban sprawl scenario simulations based on cellular automata and ordered weighted averaging ecological constraints. <b>2019</b> , 107, 105572		23
349	Dynamical attraction in parallel network models. <b>2019</b> , 361, 874-888		2
348	Co-Designing the Computational Model and the Computing Substrate. <b>2019</b> , 5-14		2
347	Voxel-based support structures for additive manufacture of topologically optimal geometries. <b>2019</b> , 105, 1-26		16
346	Density decay and growth of correlations in the Game of Life. <b>2019</b> , 2019, 013212		
345	Optimal and suboptimal regional control of probabilistic cellular automata. <b>2019</b> , 18, 845-853		
344	Convolutional Neural Networks for Cellular Automata Classification. 2019,		0
343	Real Linear Automata with a Continuum of Periodic Solutions for Every Period. <b>2019</b> , 29, 1930016		
342	Integrating Cellular Automata with Unsupervised Deep-Learning Algorithms: A Case Study of Urban-Sprawl Simulation in the Jingjintang Urban Agglomeration, China. <b>2019</b> , 11, 2464		3
341	Cellular Automata Modeling of Stem-Cell-Driven Development of Tissue in the Nervous System. <b>2019</b> , 79, 497-517		10
340	Plant behaviour in response to the environment: information processing in the solid state. <b>2019</b> , 374, 20180370		10
339	Evolutionary aspects of reservoir computing. <b>2019</b> , 374, 20180377		17
338	A Study of Chaos in Non-uniform Cellular Automata. <b>2019</b> , 76, 116-131		2
337	Autonomous Population Regulation Using a Multi-Agent System in a Prey <b>P</b> redator Model That Integrates Cellular Automata and the African Buffalo Optimization Metaheuristic. <b>2019</b> , 12, 59		

## (2020-2019)

336	Policy Modeling and Applications: State-of-the-Art and Perspectives. <b>2019</b> , 2019, 1-11	4
335	Agent-based modelling and economic complexity: a diversified perspective. <b>2019</b> , 26, 170-188	7
334	Robustness of Elementary Cellular Automata to Asynchronous Transitions and Communications. <b>2019</b> ,	1
333	. 2019,	1
332	Search optimization, funnel topography, and dynamical criticality on the string landscape. <b>2019</b> , 2019, 014-014	7
331	Hidden complexity in Life-like rules. <b>2019</b> , 100, 052133	
330	Automatic Generation of Diverse Cavern Maps with Morphing Cellular Automata. 2019,	О
329	A Comprehensive Study on Pedestrians Evacuation. <b>2019</b> , 7, 38	2
328	Self-referential basis of undecidable dynamics: From the Liar paradox and the halting problem to the edge of chaos. <b>2019</b> , 31, 134-156	5
327	Modelling and knowledge transfer in complexity science. <b>2019</b> , 77, 120-129	3
326	Systems Thinking for Systems Making: Joining Systems of Thought and Action. <b>2019</b> , 32, 63-91	5
325	Identification of Cellular Automata Based on Incomplete Observations With Bounded Time Gaps. <b>2020</b> , 50, 971-984	2
324	A class of discrete dynamical systems with properties of both cellular automata and L-systems. <b>2020</b> , 19, 609-641	1
323	A graph theory approach for regional controllability of Boolean cellular automata. <b>2020</b> , 35, 499-513	2
322	State-of-the-Art Pedestrian and Evacuation Dynamics. <b>2020</b> , 21, 1849-1866	23
321	An improved artificial neural network based on human-behaviour particle swarm optimization and cellular automata. <b>2020</b> , 140, 112862	12
320	Vegetation dynamics under water-level fluctuations: Implications for wetland restoration. <b>2020</b> , 581, 124418	19
319	Elementary cellular automata and self-referential paradoxes. <b>2020</b> , 30, 745-763	O

318	A Dynamic Urban Lake Area Evolution Model Based on Multilevel Grid, Cellular Automata, and Multiagent System. <b>2020</b> , 2020, 1-19		1
317	Breaking of the Trade-Off Principle between Computational Universality and Efficiency by Asynchronous Updating. <b>2020</b> , 22,		2
316	Necrotic Control of the Aesthetics of Evolved Art. 2020,		0
315	Cellular Automata and Discrete Complex Systems. <b>2020</b> ,		O
314	The combination of artificial intelligence and systems biology for intelligent vaccine design. <b>2020</b> , 15, 1267-1281		11
313	Four-Types of IIT-Induced Group Integrity of. <b>2020</b> , 22,		3
312	Subverting Process-Based Controls: Oscillation in Automotive Recalls and a Simulation on Opportunism within a Network. <b>2020</b> ,		1
311	Modeling and analyzing malware diffusion in wireless sensor networks based on cellular automaton. <b>2020</b> , 16, 155014772097294		5
310	Brain-Inspired Self-Organization with Cellular Neuromorphic Computing for Multimodal Unsupervised Learning. <b>2020</b> , 9, 1605		5
309	Maladaptive social norms, cultural progress, and the free-energy principle. <b>2020</b> , 43, e100		1
308	"Social physiology" for psychiatric semiology: How TTOM can initiate an interactive turn for computational psychiatry?. <b>2020</b> , 43, e102		2
307	Enculturation without TTOM and Bayesianism without FEP: Another Bayesian theory of culture is needed. <b>2020</b> , 43, e103		1
306	Emergence of Turing Patterns in a Simple Cellular Automata-Like Model via Exchange of Integer Values between Adjacent Cells. <b>2020</b> , 2020, 1-12		2
305	Emergence versus neoclassical reductions in economics. <b>2020</b> , 27, 240-262		3
304	IECA: an efficient IoT friendly image encryption technique using programmable cellular automata. <b>2020</b> , 11, 5083-5102		21
303	Criticality in Pareto Optimal Grammars?. <b>2020</b> , 22,		2
302	Games of life. American Journal of Physics, <b>2020</b> , 88, 371-378	0.7	1
301	Reachability problem in non-uniform cellular automata. <i>Information Sciences</i> , <b>2021</b> , 543, 72-84	7.7	2

300 Urban Human Dynamics. **2021**, 41-57

299	Reversibility of non-saturated linear cellular automata on finite triangular grids. <i>Chaos</i> , <b>2021</b> , 31, 0131	363.3	
298	The Complexity and Information Content of Simulated Universes. <i>Emergence, Complexity and Computation</i> , <b>2021</b> , 29-56	0.1	
297	Observations on Computability, Uncertainty, and Technology. <b>2021</b> , 349-365		
296	A cellular automaton-based model of ship traffic flow in busy waterways. <b>2021</b> , 74, 605-618		2
295	Cellular Automata Modeling for Urban and Regional Planning. <b>2021</b> , 865-883		5
294	Deep Reservoir Computing. <b>2021</b> , 77-95		1
293	The Santa Fe Institute and Econophysics: A Possible Genealogy?. 1		2
292	Nonlinear Endogenous Business Cycles: Zambelli-Goodwin Excursions in Cellular Automata Worlds. <b>2021</b> , 311-327		
291	High-Level Synthesis of Cellular Automata <b>B</b> elousov Zhabotinsky Reaction in FPGA. <b>2021</b> , 341-349		O
<b>29</b> 0	Entropy-Based Classification of Elementary Cellular Automata under Asynchronous Updating: An Experimental Study. <b>2021</b> , 23,		4
289	Probabilistic Cellular Automata for Granular Media in Video Games. <b>2021</b> , 10, 111-120		1
288	Criticality, Connectivity, and Neural Disorder: A Multifaceted Approach to Neural Computation. <i>Frontiers in Computational Neuroscience</i> , <b>2021</b> , 15, 611183	3.5	3
287	Motion-Compensated Frame Interpolation Using Cellular Automata-Based Motion Vector Smoothing. <b>2021</b> , 2021, 1-16		
286	The emergence of a fractal structure of formal logic via the spatiotemporal reflexive self-identification. <i>BioSystems</i> , <b>2021</b> , 202, 104342	1.9	1
285	Computational Models and Simulations of Cancer Metastasis. <b>2021</b> , 28, 4837		6
284	Construction of phase diagram for elementary cellular automata by behavior of s-step transition function. <b>2021</b> , 103, 042128		О
283	On the complexity of asynchronous freezing cellular automata. <b>2021</b> , 281, 104764		

282	Physical layer encryption scheme based on cellular automata and DNA encoding by hyper-chaos in a CO-OFDM system. <b>2021</b> , 29, 18976-18987	7
281	(Imperfect) strategies to generate primitive polynomials over GF(2). 2021, 872, 79-96	1
280	Communication complexity meets cellular automata: Necessary conditions for intrinsic universality. <b>2021</b> , 20, 307-320	
279	Spatio-temporal evolution and future scenario prediction of karst rocky desertification based on CAMarkov model. <b>2021</b> , 14, 1	O
278	Dynamic stability analysis of frame anchor-supported slope. <b>2021</b> , 14, 1	
277	Classification of Discrete Dynamical Systems Based on Transients. <i>Artificial Life</i> , <b>2021</b> , 1-26 1.4	
276	Regulation of Vegetation and Evapotranspiration by Water Level Fluctuation in Shallow Lakes. <b>2021</b> , 13, 2651	0
275	Lerch distribution based on maximum nonsymmetric entropy principle: Application to Conway® game of life cellular automaton. <b>2021</b> , 151, 111272	4
274	Evolutionary Tabu Inverted Ant Cellular Automata with Elitist Inertia for swarm robotics as surrogate method in surveillance task using e-Puck architecture. <b>2021</b> , 144, 103840	0
273	A genetic timing scheduling model for urban traffic signal control. <i>Information Sciences</i> , <b>2021</b> , 576, 475-483	1
272	About the robustness of 1d cellular automata revising their temporal entropy. <i>Physica D: Nonlinear Phenomena</i> , <b>2021</b> , 425, 132953	2
271	Study on strategies for alighting and boarding in subway stations. <b>2021</b> , 583, 126302	1
270	Lvy Walk in Swarm Models Based on Bayesian and Inverse Bayesian Inference. <b>2021</b> , 19, 247-260	4
269	Cellular Automata and Agent Base Models for Urban Studies: From Pixels to Cells to Hexa-dpi's. 323-334	8
268	Calibrating and Validating Cellular Automata Models of Urbanization. 335-345	13
267	The Role of Computation in Complex Regulatory Networks. <b>2006</b> , 206-225	9
266	Fully Asynchronous Behavior of Double-Quiescent Elementary Cellular Automata. 2005, 316-327	7
265	Spatiotemporal Data Mining with Cellular Automata. <b>2006</b> , 1001-1004	1

264	Cell Dormancy in Cellular Automata. <b>2006</b> , 367-374	4
263	On the Complexity of Limit Sets of Cellular Automata Associated with Probability Measures. <b>2006</b> , 190-201	4
262	1/f Noise in Elementary Cellular Automaton Rule 110. <b>2006</b> , 207-216	5
261	Generalized Automata Networks. <b>2006</b> , 14-28	4
260	Directed Percolation Phenomena in Asynchronous Elementary Cellular Automata. 2006, 667-675	6
259	Problem Solving and Complex Systems. <b>2006</b> , 53-85	1
258	Observations on Complex Multi-state CAs. <b>2001</b> , 226-235	3
257	Damage Spreading and Esensitivity on Cellular Automata. <b>2000</b> , 226-241	1
256	Non-homogeneous Classifier Systems in a Macro-evolution Process. <b>2000</b> , 161-174	4
255	Artificial Life Applications of a Class of P Systems: Abstract Rewriting Systems on Multisets. <b>2001</b> , 299-346	33
254	The computational complexity of cellular automata. <b>1989</b> , 451-459	1
253	Quasi-Uniform Computation-Universal cellular automata. <b>1995</b> , 544-554	10
253 252	Quasi-Uniform Computation-Universal cellular automata. <b>1995</b> , 544-554  Designing evolware by cellular programming. <b>1997</b> , 79-95	10
252	Designing evolware by cellular programming. <b>1997</b> , 79-95	7
252 251	Designing evolware by cellular programming. 1997, 79-95  Online autonomous evolware. 1997, 96-106  Scheduling tasks of a parallel program in two-processor systems with use of cellular automata.	7
252 251 250	Designing evolware by cellular programming. 1997, 79-95  Online autonomous evolware. 1997, 96-106  Scheduling tasks of a parallel program in two-processor systems with use of cellular automata. 1998, 261-269	7 13 1

246	Encyclopedia of Complexity and Systems Science. <b>2009</b> , 8815-8850	2
245	Encyclopedia of Complexity and Systems Science. <b>2009</b> , 823-848	12
244	Agent-Based Modeling and Artificial Life. <b>2020</b> , 725-745	1
243	Computing with Solitons: A Review and Prospectus. <b>2002</b> , 277-297	12
242	Implementation of Logical Functions in the Game of Life. <b>2002</b> , 491-512	14
241	Computing Inside the Billiard Ball Model. <b>2002</b> , 135-160	4
240	Scale-Sensitive Ecological Properties: Historical Context, Current Meaning. 1997, 3-31	27
239	Cellular Automata Models of Cardiac Conduction. <b>1991</b> , 437-476	10
238	Computational Complexity. <b>2012</b> , 1821-1836	2
237	The Emergence of Organizational Structures. <b>1995</b> , 209-231	2
236	Simulation as a Tool to Model Stochastic Processes in Complex Systems. <b>1999</b> , 45-69	4
235		
	Structurally Dynamic Cellular Automata. <b>2009</b> , 29-71	1
234	Structurally Dynamic Cellular Automata. 2009, 29-71  Cellular Automata with Memory. 2009, 153-183	6
234		
	Cellular Automata with Memory. <b>2009</b> , 153-183	6
233	Cellular Automata with Memory. 2009, 153-183  Control of Cellular Automata. 2018, 445-458	6
233	Cellular Automata with Memory. 2009, 153-183  Control of Cellular Automata. 2018, 445-458  Cellular Automata Music: From Sound Synthesis to Musical Forms. 2007, 170-193	6 2 11

## (2006-2013)

228	Explanatory Models Versus Predictive Models: Reduced Complexity Modeling in Geomorphology. <b>2013</b> , 115-128	7
227	Memristor Cellular Automata and Memristor Discrete-Time Cellular Neural Networks. <b>2014</b> , 649-713	5
226	Lyapunov Exponents of One-Dimensional, Binary Stochastic Cellular Automata. <b>2014</b> , 96-104	1
225	Towards a Comprehensive Understanding of Multi-state Cellular Automata. <b>2014</b> , 16-24	2
224	Coastal Wetlands in the Changjiang Estuary. <b>2015</b> , 137-159	2
223	Computing with Classical Soliton Collisions. <i>Emergence, Complexity and Computation</i> , <b>2017</b> , 261-295 0.1	2
222	Memristor Cellular Automata and Memristor Discrete-Time Cellular Neural Networks. <b>2019</b> , 1289-1361	5
221	Cellular Automaton and Tacit Knowledge Sharing. 2018, 109-120	1
220	On Measuring Cognition and Cognitive Augmentation. <b>2018</b> , 494-507	2
219	On the Influence of Localisation and Communication Error on the Behaviour of a Swarm of Autonomous Underwater Vehicles. <i>Advances in Intelligent Systems and Computing</i> , <b>2019</b> , 68-79	2
218	Research of Complex Forms in Cellular Automata by Evolutionary Algorithms. 2004, 357-367	6
217	Intrinsic Evolvable Hardware in Digital Filter Design. <b>2004</b> , 389-398	8
216	A New Universal Cellular Automaton Discovered by Evolutionary Algorithms. 2004, 175-187	8
215	Evaluating Team Performance at the Edge of Chaos. <b>2004</b> , 89-101	13
214	Local Information in One-Dimensional Cellular Automata. <b>2004</b> , 121-130	12
213	SAT-Based Analysis of Cellular Automata. <b>2004</b> , 745-754	1
212	Exploring Rhythmic Automata. <b>2005</b> , 551-556	4
211	Evolution and Hypercomputing in Global Distributed Evolvable Virtual Machines Environment. <b>2006</b> , 176-191	4

210	Prediction Horizons in Agent Models. <b>2008</b> , 88-102		4
209	Understanding a Non-trivial Cellular Automaton by Finding Its Simplest Underlying Communication Protocol. <b>2008</b> , 592-604		6
208	Generative Network Automata: A Generalized Framework for Modeling Adaptive Network Dynamics Using Graph Rewritings. <i>Understanding Complex Systems</i> , <b>2009</b> , 311-332	0.4	13
207	Introduction to Modeling of Complex Systems Using Cellular Automata. <i>Understanding Complex Systems</i> , <b>2010</b> , 1-16	0.4	7
206	Cellular Automata Composition Techniques for Spatial Dynamics Simulation. <i>Understanding Complex Systems</i> , <b>2010</b> , 81-115	0.4	11
205	Research on Vegetation Dynamic Change Simulation Based on Spatial Data Mining of ANN-CA Model Using Time Series of Remote Sensing Images. <b>2010</b> , 551-557		2
204	Characterization of Texture in Images by Using a Cellular Automata Approach. 2010, 522-533		4
203	Application of Cellular Automata in Symmetric Key Cryptography. <b>2010</b> , 154-163		1
202	Cryptography with Constant Input Locality. <b>2014</b> , 147-185		1
201	Dynamic Cellular Automata-Based S-Boxes. <b>2012</b> , 184-191		5
200	Encyclopedia of Complexity and Systems Science. <b>2018</b> , 1-14		3
199	Genome Parameters as Information to Forecast Emergent Developmental Behaviors. <b>2012</b> , 186-197		5
198	Computation in Complex Systems. <b>2013</b> , 13-52		2
197	A Coevolutionary Approach to Cellular Automata-Based Task Scheduling. <b>2012</b> , 111-120		5
196	A New Kind of Philosophy: Manifesto for a Digital Ontology. <i>Emergence, Complexity and Computation</i> , <b>2013</b> , 325-339	0.1	3
195	Exploring Natureඕ Roulette Wheel: Chaos in Biological Systems. <b>1991</b> , 173-185		1
194	Social Dilemmas in Lineland and Flatland. <b>1996</b> , 337-361		15
193	Belf-organizing Friendship Networks. <b>1996</b> , 385-418		4

192	Social Science Simulation [Drigins, Prospects, Purposes. <b>1997</b> , 41-54	31
191	Investigating Universal Computability of Conventional Cellular Automata Problems on an Organic Molecular Matrix. <b>2010</b> , 1-12	2
190	Cellular Automata in Urban Spatial Modelling. <b>2012</b> , 69-84	13
189	Computer Science Meets Evolutionary Biology: Pure Possible Processes and the Issue of Gradualism. <b>2012</b> , 137-162	2
188	Cellular Automata in the Social Sciences. <b>1996</b> , 209-233	18
187	TOWARDS A GRAMMAR OF INORGANIC STRUCTURE. <b>1986</b> , 803-824	1
186	Digital life, a theory of minds, and mapping human and machine cultural universals. <b>2020</b> , 43, e98	1
185	Mesoeconomic Structure, Innovation and Complexity: The Concept of Mesoeconomic Plexus. <b>2008</b> , 52-86	1
184	Chimera states in coupled map lattices: Spatiotemporally intermittent behavior and an equivalent cellular automaton. <i>Chaos</i> , <b>2020</b> , 30, 113102	1
183	Artificial life in an exciton-polariton lattice. <b>2020</b> , 22, 103062	4
182	Entropies of automorphisms of a topological Markov shift. <b>1987</b> , 99, 589-589	29
182 181	Entropies of automorphisms of a topological Markov shift. <b>1987</b> , 99, 589-589  Spell-Out and the Minimalist Program. <b>2011</b> ,	29
181	Spell-Out and the Minimalist Program. <b>2011</b> ,	6
181	Spell-Out and the Minimalist Program. 2011,  Limit theorems for the nonattractive Domany-Kinzel model. 2002, 30,  Dynamics of Complex Systems Built as Coupled Physical, Communication and Decision Layers. 2016,	3
181 180 179	Spell-Out and the Minimalist Program. 2011,  Limit theorems for the nonattractive Domany-Kinzel model. 2002, 30,  Dynamics of Complex Systems Built as Coupled Physical, Communication and Decision Layers. 2016, 11, e0145135	3
181 180 179 178	Spell-Out and the Minimalist Program. 2011,  Limit theorems for the nonattractive Domany-Kinzel model. 2002, 30,  Dynamics of Complex Systems Built as Coupled Physical, Communication and Decision Layers. 2016, 11, e0145135  Study of spatially extended dynamical systems using probabilistic cellular automata. 1999, 169, 481  A CELLULAR AUTOMATA MODEL FOR MONITORING AND SIMULATING URBAN LAND USE/COVER	6 3 10

174	The Harvard-MIT complexity approach to development and Austrian economics: Similarities and policy implications. 1	0
173	Computational Power of Asynchronously Tuned Automata Enhancing the Unfolded Edge of Chaos. <b>2021</b> , 23,	1
172	A critical analysis of radiation-matter interaction. <b>2000</b> , 23, 1-59	
171	References. <b>2001</b> , 475-495	
170	References. <b>2001</b> , 527-546	
169	Observation of on-off intermittency in cellular automata. <b>2001</b> , 55-62	
168	Cellular Automata Approach to Scheduling Problem in Case of Modifications of a Program Graph. <b>2001</b> , 155-166	
167	A Complexity-Theoretic Approach to the Design of Good Measures of Cryptographic Strength. <b>2001</b> , 233-241	
166	On Multiprocessor Scheduling with Cellular Automata. <b>2002</b> , 371-380	
165	Finding Gliders in Cellular Automata. <b>2002</b> , 381-410	1
165 164	Finding Gliders in Cellular Automata. 2002, 381-410  The Games of Life. 2002, 5-32	1
		1
164	The Games of Life. <b>2002</b> , 5-32	
164 163	The Games of Life. <b>2002</b> , 5-32  Immune-Like System Approach to Cellular Automata-Based Scheduling. <b>2002</b> , 626-633	
164 163 162	The Games of Life. 2002, 5-32  Immune-Like System Approach to Cellular Automata-Based Scheduling. 2002, 626-633  Patch Dynamics, Habitat Degradation, and Space in Metapopulations. 2003, 239-254	
164 163 162	The Games of Life. 2002, 5-32  Immune-Like System Approach to Cellular Automata-Based Scheduling. 2002, 626-633  Patch Dynamics, Habitat Degradation, and Space in Metapopulations. 2003, 239-254  A Spiking Oscillator with Quantized State and Its Pulse Coding Characteristics. 2004, 1123-1128	
164 163 162 161 160	The Games of Life. 2002, 5-32  Immune-Like System Approach to Cellular Automata-Based Scheduling. 2002, 626-633  Patch Dynamics, Habitat Degradation, and Space in Metapopulations. 2003, 239-254  A Spiking Oscillator with Quantized State and Its Pulse Coding Characteristics. 2004, 1123-1128  Pulse Codings of a Spiking Neuron Having Quantized State. 2004, 1002-1009	

## (2010-2006)

156	A Systemic Framework for Open Software Agents. <b>2006</b> , 222-232	
155	Self-adaptation and Dynamic Environment Experiments with Evolvable Virtual Machines. 2006, 46-60	6
154	Synthesis of Desired Binary Cellular Automata Through the Genetic Algorithm. 2006, 738-745	1
153	<b>134122006</b> , 18, 123-131	2
152	Gliders and Riders: A Particle Swarm Selects for Coherent Space-Time Structures in Evolving Cellular Automata. <b>2006</b> , 131-154	
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142	Game of Life Music. <b>2010</b> , 489-501	1
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140	The Extended Glider-Eater Machine in the Spiral Rule. <b>2010</b> , 175-186	1
139	Emergent Complexity in Conway® Game of Life. <b>2010</b> , 389-436	

138	Macroscopic Spatial Complexity of the Game of Life Cellular Automaton: A Simple Data Analysis. <b>2010</b> , 437-450	
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135	Foundation for Establishing NSE: Complexity Science. <b>2011</b> , 79-90	
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133	A Local Behavior Identification Algorithm for Generative Network Automata Configurations. <b>2011</b> , 191-199	
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118	Computational Complexity. <b>2012</b> , 312-324	
117	Computational Complexity. <b>2012</b> , 1043-1052	
116	Topological Perturbations and Their Effect on the Dynamics of Totalistic Cellular Automata. <b>2012</b> , 1-10	
115	Analysis of Climate Variability under Various Scenarios for Future Urban Growth in Seoul Metropolitan Area (SMA), Korea. <b>2012</b> , 28, 261-272	3
114	Introduction. <b>2013</b> , 1-11	
113	Trace Complexity of Chaotic Reversible Cellular Automata. <b>2014</b> , 54-66	1
112	Dynamic mapping of flood boundaries: current possibilities offered by Earth Observation System and Cellular Automata.	
111	Infinite Number of Disjoint Chaotic Subsystems of Cellular Automaton Rule 106. <b>2014</b> , 05, 3256-3263	
110	Measuring Phenotypic Structural Complexity of Artificial Cellular Organisms. <i>Advances in Intelligent Systems and Computing</i> , <b>2014</b> , 23-35	1
109	Homogeneous Dynamics for Square Boolean Automata with Null Boundary Conditions. <b>2014</b> , 30-43	
108	A Pixelated Design Medium. <b>1986</b> , 180-202	
107	Systolic architectures, systems and computations. <b>1988</b> , 254-270	1
106	Complex Computing with Cellular Automata. <b>1989</b> , 57-72	
105	Cellular Automata and Condensed Matter Physics. <b>1991</b> , 249-277	
104	Efficient unidimensional universal cellular automaton. <b>1992</b> , 374-382	3
103	Self-Similar Fractals can be Generated by Cellular Automata. <b>1993</b> , 463-471	2

102	Synergetics, Predictability and Deterministic Chaos. <b>1993</b> , 75-141		1
101	Au bord du chaos. <b>1995</b> , 239-254		
100	A complexity measure of the Internet. <b>1997</b> , 55-57		
99	Quantum Automata in Cytoskeletal Microtubules: A Nanoscale Substrate for Cognition. <b>1997</b> , 61-106		
98	Use of fuzzy objects for statistical description of discrete systems with complex behavior. <b>1997</b> , 595-597		
97	Where do Industrial Districts Come From? A Cellular Automata Model of Competition, Cooperation and the Dynamics of Industrial Clusters. <b>1998</b> , 49-66		
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90	Broadcasting Automata and Patterns on Z2. Emergence, Complexity and Computation, <b>2015</b> , 297-340	.1	1
89	Synergetic Impact of Synergetics - Remembrances of a Chemist. <i>Understanding Complex Systems</i> , O 2016, 59-74	·4	1
88	BLOCK TRANSFORMATION OF HYBRID CELLULAR AUTOMATA. <b>2016</b> , 6, 1164-1179		
87	A System on Chip Development of Customizable GA Architecture for Real Parameter Optimization Problem. <b>2016</b> , 66-102		О
86	Some Properties on the Capability of Associative Memory for Higher Order Neural Networks. <b>2016</b> , 391-4	19	
85	The Impact of Structure Network Parameters on Consumers Behavior: A Cellular Automata Model.  Advances in Intelligent Systems and Computing, <b>2017</b> , 237-247	·4	

84	Infinite Computations and a Classification of Two-Dimensional Cellular Automata Using Infinite Computations. <b>2017</b> , 183-195	1
83	Cellular Automata. <b>2017</b> , 65-111	
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79	Modeling the spreading of forest fire based on a cellular automata using the markov chain and MOLA with a neighborhood filter. <b>2017</b> , 5, 99-122	
78	Recognizing Complex Behavior Emerging from Chaos in Cellular Automata. <i>Springer Proceedings in Complexity</i> , <b>2018</b> , 82-90	
77	Introduction. <b>2018</b> , 1-9	
76	Differential Game Model of Knowledge Flow in University-Industry Collaborative Innovation. <b>2018</b> , 133-153	
75	Measuring the Performance of Knowledge Value-Added in University-Industry Collaborative Innovation. <b>2018</b> , 11-28	
74	Small-World Network and Knowledge Sharing. <b>2018</b> , 121-131	
73	Complexity of Maxmin-(omega ) Cellular Automata. <i>Springer Proceedings in Complexity</i> , <b>2018</b> , 98-107 0.3	
72	Conclusion and Further Research. <b>2018</b> , 155-157	
71	Edge Detection Property of 2D Cellular Automata. <i>Advances in Intelligent Systems and Computing</i> , O.4	
70	Cellular Automata and Shifts of Finite Type. <b>2019</b> , 09, 791-798	
69	Hĉr.esel Otomata Tabanl∄ili Sñflandr̃ma. 43-58	
68	Evolving Diverse Cellular Automata Based Level Maps. <i>Advances in Intelligent Systems and Computing</i> , <b>2020</b> , 10-23	
67	Automatic Texture Based Classification of the Dynamics of One-Dimensional Binary Cellular Automata. <b>2019</b> , 8, 41-61	

66	Reservoir Computing Using Asynchronous Cellular Automata. <b>2020</b> , 56, 8-15	
65	Generating Efficient Techniques for Information Extraction and Processing Using Cellular Automata. <b>2020</b> , 1356-1376	
64	Reversibility of number-conserving 1D cellular automata: Unlocking insights into the dynamics for larger state sets. <i>Physica D: Nonlinear Phenomena</i> , <b>2021</b> , 429, 133075	1
63	Further Exploration of Necrotic Control of Evolved Art. 2020,	
62	Everywhere Zero Pointwise Lyapunov Exponents for Sensitive Cellular Automata. <b>2020</b> , 71-85	
61	Social Organisation of Mobile Sensors for Wildfire Spread Estimation. <b>2020</b> , 53, 3596-3601	
60	Viral Diseases Propagation Analysis in Short Time. <b>2020</b> , 41-57	O
59	The cellular automata inside optical chimera states. <b>2021</b> , 153, 111524	O
58	Some Properties on the Capability of Associative Memory for Higher Order Neural Networks. 57-86	
57	Collisions and their Catenations: Ultimately Periodic Tilings of the Plane. 2008, 229-240	
56	How to Model Emergence: Non-Traditional Methods. 195-290	
55	Locating Self-Organization at the Edge of Chaos. <b>2006</b> , 193-200	
54	FPGA Implementation of Evolvable Characters Recognizer with Self-adaptive Mutation Rates. 2007, 286-295	2
53	Biological Inspired Global Descriptor for Shape Matching. <b>2007</b> , 1281-1290	
52	Design of an Organisational Structure to Govern the Dynamic Behaviour of Aviation-oriented Orders with Multiple Priorities. <b>2008</b> , 267-316	
51	Searching for Glider Guns in Cellular Automata: Exploring Evolutionary and Other Techniques. <b>2007</b> , 255-265	1
50	Occurrence of Gliders in an Infinite Class of Life-Like Cellular Automata. 32-41	2
49	Can an AI learn political theory?. <b>2020</b> , 2,	

48	Biophysical model for high-throughput tumor and epithelial cell co-culture in complex biochemical microenvironments.		О	
47	Goals as Emergent Autopoietic Processes. <b>2021</b> , 9, 720652		1	
46	Progress, gaps and obstacles in the classification of cellular automata. <i>Physica D: Nonlinear Phenomena</i> , <b>2021</b> , 133074	3.3	4	
45	Life Worth Mentioning: Complexity in Life-Like Cellular Automata. <i>Artificial Life</i> , <b>2021</b> , 27, 105-112	1.4	O	
44	Asynchronous communicating cellular automata: Formalization, robustness and equivalence. <i>Information Sciences</i> , <b>2022</b> , 587, 335-353	7.7		
43	Carle's Game: An Open-Ended Challenge in Exploratory Machine Creativity. 2021,			
42	About the Reversibility of Elementary Cellular Automata with Rule Number 180. <i>Lecture Notes in Networks and Systems</i> , <b>2022</b> , 131-140	0.5		
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36	Construction and Configuration Analysis of Zelkova Serrata Lenticel-Like Patterns Generated through DNA Algorithmic Self-Assembly ACS Applied Bio Materials, 2021,	4.1	0	
35	On Boolean Automata Isolated Cycles and Tangential Double-Cycles Dynamics. <i>Emergence, Complexity and Computation</i> , <b>2022</b> , 145-178	0.1		
34	On Fungal Automata. Emergence, Complexity and Computation, 2022, 455-483	0.1	1	
33	Load Balancing of the Parallel Execution of Two Dimensional Partitioned Cellular Automata. 2022,			
32	A New Notion of Universality in Respect of Logic Gates Generation Capability of ECAs. <i>Advances in Intelligent Systems and Computing</i> , <b>2022</b> , 167-190	0.4		
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27	Spatiotemporal chaos in two-dimensional dynamic coupled map lattices system based on elementary cellular automata. <i>Nonlinear Dynamics</i> ,	5	O
26	Machine Learning Techniques in Structural Wind Engineering: A State-of-the-Art Review. <i>Applied Sciences (Switzerland)</i> , <b>2022</b> , 12, 5232	2.6	0
25	Emergence and Universal Computation. <b>2022</b> , 15-30		
24	Verifying Maze-Like Game Levels with Model Checker SPIN. <i>IEEE Access</i> , <b>2022</b> , 1-1	3.5	
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22	Selecting continuous life-like cellular automata for halting unpredictability. 2022,		
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12	On Deep-Fake Stock Prices and Why Investor Behavior Might Not Matter. <b>2022</b> , 15, 475	О
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9	Copyright Page. <b>2011</b> , iv-iv	Ο
8	. <b>2011</b> , v-v	0
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