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## Computing with Membranes

DOI: 10.1006/jcss.1999.1693

Journal of Computer and System Sciences, 2000, 61, 108-143.

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1582	Multiset Automata. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 69-83	0.9	26
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1152	Evolutionary Computation in Combinatorial Optimization. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 0.9	1
1151	Spiking neural P systems with anti-spikes and without annihilating priority working in a 'flip-flop' way. <b>2013</b> , 4, 152	3
1150	A Linear Time Complexity of Breadth-First Search Using P System with Membrane Division. <b>2013</b> , 2013, 1-11	1
1149	Time-Free Solution to Hamilton Path Problems Using P Systems with d-Division. <b>2013</b> , 2013, 1-7	9
1148	A New Approach to Fault Diagnosis of Power Systems Using Fuzzy Reasoning Spiking Neural P Systems. <b>2013</b> , 2013, 1-13	20
1147	An Improved Differential Evolution Optimization Based on P System. <b>2013</b> , 756-759, 3346-3350	
1146	Beyond Artificial Intelligence. <b>2013</b> ,	
1145	Solving Vertex Cover Problem Using DNA Tile Assembly Model. <b>2013</b> , 2013, 1-7	3
1144	Challenges of Dynamic Multi-objective Optimisation. <b>2013</b> ,	1
1143	Asynchronous P Systems for the Maximum Independent Set and Related Graph Problems. <b>2013</b> ,	
1142	. <b>2013</b> ,	17
1141	Collective behaviours: from biochemical kinetics to electronic circuits. <b>2013</b> , 3, 3458	11
1140	A polynomial alternative to unbounded environment for tissue P systems with cell division. <b>2013</b> , 90, 760-775	11
1139	An algebraic formulation of inverse problems in MP dynamics. <b>2013</b> , 90, 845-856	8

1138	P AND dP AUTOMATA: UNCONVENTIONAL VERSUS CLASSICAL AUTOMATA. <i>International Journal of Foundations of Computer Science</i> , <b>2013</b> , 24, 995-1008	0.6	2
1137	Homogeneous spiking neural P systems working in sequential mode induced by maximum spike number. <b>2013</b> , 90, 831-844		6
1136	Population Dynamics P system (PDP) models: a standardized protocol for describing and applying novel bio-inspired computing tools. <i>PLoS ONE</i> , <b>2013</b> , 8, e60698	3.7	36
1135	Fraction reduction in membrane systems. <b>2014</b> , 2014, 858527		
1134	An optimization spiking neural p system for approximately solving combinatorial optimization problems. <i>International Journal of Neural Systems</i> , <b>2014</b> , 24, 1440006	6.2	214
1133	Spiking neural P systems with thresholds. <b>2014</b> , 26, 1340-61		94
1132	Membrane Computing Inspired Approach for Executing Scientific Workflow in the Cloud. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 51-65	0.9	
1131	Solving Multidimensional 0-1 Knapsack Problem with Time-Free Tissue P Systems. <b>2014</b> , 2014, 1-6		3
1130	On some classes of sequential spiking neural p systems. <b>2014</b> , 26, 974-97		52
1129	Formalizing Modularization and Data Hiding in Synthetic Biology. <b>2014</b> , 11, 1-20		2
1128	On the $\lambda$ -calculus and Co-intuitionistic Logic. Notes on Logic for Concurrency and P Systems. <b>2014</b> , 130, 21-65		2
1127	Describing Membrane Computations with a Chemical Calculus. <b>2014</b> , 134, 39-50		2
1126	Conventional Verification for Unconventional Computing: a Genetic XOR Gate Example. <b>2014</b> , 134, 97-110		13
1125	The Membrane-Computing-Based Automatic Online Marking-Management Model and its Application. <b>2014</b> , 1079-1080, 1245-1252		
1124	Time-Free Solution for QSAT by Using Timed Tissue P Systems. <b>2014</b> , 568-570, 812-816		1
1123	A P-Based Hybrid Evolutionary Algorithm for Vehicle Routing Problem with Time Windows. <b>2014</b> , 2014, 1-11		2
1122	A new model for interactions between robots in a swarm. <b>2014</b> ,		4
1121	Region-based segmentation of Hexagonal digital images using membrane computing. <b>2014</b> ,		2

1120	Automatic design of deterministic and non-halting membrane systems by tuning syntactical ingredients. <b>2014</b> , 13, 363-71		12
1119	Learning of P systems for subclass of pattern languages. <b>2014</b> ,		
1118	A bio-inspired software for homology groups of 2D digital images. <b>2014</b> ,		3
1117	Parallel contextual array P systems. <b>2014</b> ,		3
1116	Reaction Systems for Logical Operations and Sorting. <b>2014</b> ,		
1115	Mechanism of sulfoxidation in artificial cell system. <b>2014</b> ,		2
1114	Enzymatic numerical P systems for basic operations and sorting. <b>2014</b> ,		2
1113	High Performance Simulations of Kernel P Systems. <b>2014</b> ,		11
1112	Membrane Computing. <i>Lecture Notes in Computer Science</i> , <b>2014</b> ,	0.9	3
1111	Application of a computational model for complex fluvial ecosystems: The population dynamics of zebra mussel <i>Dreissena polymorpha</i> as a case study. <b>2014</b> , 20, 116-126		24
1110	Descriptive Complexity of Formal Systems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> ,	0.9	
1109	Spiking neural P systems with a generalized use of rules. <b>2014</b> , 26, 2925-43		31
1108	Transactions on Computational Collective Intelligence XVII. <i>Lecture Notes in Computer Science</i> , <b>2014</b> ,	0.9	
1107	Transactions on Petri Nets and Other Models of Concurrency IX. <i>Lecture Notes in Computer Science</i> , <b>2014</b> ,	0.9	
1106	Weight optimization for case-based reasoning using membrane computing. <i>Information Sciences</i> , <b>2014</b> , 287, 109-120	7.7	22
1105	Membrane Computing Based Virtual Network Embedding Algorithm with Path Splitting. <b>2014</b> , 687-691, 2997-3002		1
1104	Programming chemistry in DNA-addressable bioreactors. <b>2014</b> , 11,		9
1103	Contextual iso-triangular array P system and iso-triangular picture languages. <b>2014</b> ,		0

1102	Semi-Uniform Solution for Common Algorithmic Problem by P System in the Minimally Parallel Mode. <b>2014</b> , 568-570, 802-806		
1101	Cell-like P-systems based on rules of Particle Swarm Optimization. <b>2014</b> , 246, 546-560		18
1100	Emerging Biology-based CI Algorithms. <b>2014</b> , 217-317		3
1099	Implementation of Membrane Algorithms on GPU. <b>2014</b> , 2014, 1-7		3
1098	A novel focused crawler based on cell-like membrane computing optimization algorithm. <i>Neurocomputing</i> , <b>2014</b> , 123, 266-280	5.4	16
1097	Computational power of tissue P systems for generating control languages. <i>Information Sciences</i> , <b>2014</b> , 278, 285-297	7.7	63
1096	Using a bioinspired model to determine the extinction risk of <i>Calotriton asper</i> populations as a result of an increase in extreme rainfall in a scenario of climatic change. <b>2014</b> , 281, 1-14		10
1095	On languages generated by spiking neural P systems with weights. <i>Information Sciences</i> , <b>2014</b> , 278, 423-433		61
1094	Practical Intractability: A Critique of the Hypercomputation Movement. <b>2014</b> , 24, 275-305		2
1093	Homogenous spiking neural P systems with anti-spikes. <b>2014</b> , 24, 1833-1841		24
1092	Small universal simple spiking neural P systems with weights. <b>2014</b> , 57, 1-11		25
1091	Morphogenesis through moving membranes. <i>Natural Computing</i> , <b>2014</b> , 13, 403-419	1.3	7
1090	. <b>2014</b> , 18, 145-166		12
1089	PSysCal: a parallel tool for calibration of ecosystem models. <b>2014</b> , 17, 271-279		3
1088	Accepting Networks of Evolutionary Processors with Subregular Filters. <b>2014</b> , 55, 84-109		5
1087	Population-based metaheuristics for continuous boundary-constrained dynamic multi-objective optimisation problems. <b>2014</b> , 14, 31-47		38
1086	Time-free solution to SAT problem using P systems with active membranes. <i>Theoretical Computer Science</i> , <b>2014</b> , 529, 61-68	1.1	39
1085	Applications of Membrane Computing in Systems and Synthetic Biology. <b>2014</b> ,		43

1084	Theory of Fuzzy Computation. <b>2014</b> ,			11
1083	Enhancement of membrane computing model implementation on GPU by introducing matrix representation for balancing occupancy and reducing inter-block communications. <b>2014</b> , 5, 861-871			6
1082	Design of a prototype for modelling membrane computation based on ecosystems in a cloud environment. <b>2014</b> ,			
1081	Parallel and distributed computing models on a graphics processing unit to accelerate simulation of membrane systems. <b>2014</b> , 47, 60-78			16
1080	An adaptive membrane algorithm for solving combinatorial optimization problems. <b>2014</b> , 34, 1377-1394			14
1079	. <b>2014</b> ,			1
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1077	Evaluating the SAT problem on P systems for different high-performance architectures. <b>2014</b> , 69, 248-272			
1076	Membrane-inspired quantum bee colony optimization and its applications for decision engine. <b>2014</b> , 21, 1887-1897			4
1075	Simulation of Spatial P system models. <i>Theoretical Computer Science</i> , <b>2014</b> , 529, 11-45	1.1		12
1074	Modeling framework for membrane computing in biological systems: Evaluation with a case study. <b>2014</b> , 5, 137-143			2
1073	An evolutionary membrane algorithm for global numerical optimization problems. <i>Information Sciences</i> , <b>2014</b> , 276, 219-241	7.7		30
1072	Endpoint prediction model for basic oxygen furnace steel-making based on membrane algorithm evolving extreme learning machine. <b>2014</b> , 19, 430-437			35
1071	Array P systems with permitting features. <b>2014</b> , 5, 243-250			5
1070	Algorithm of molecular computing on the base of membranes. <b>2014</b> , 541, 012094			
1069	A SIMULATION OF TRANSITION P SYSTEMS IN WEIGHTED SPIKING NEURAL P SYSTEMS. <b>2014</b> ,			1
1068	Spiking Neural P Systems - A Quick Survey and Some Research Topics. <b>2014</b> ,			
1067	Minimal probabilistic P systems for modelling ecological systems. <i>Theoretical Computer Science</i> , <b>2015</b> , 608, 36-56	1.1		9

1066	Why should we use the non-existent? Advantages of application of unconventional computing to processing of noisy medical images. <b>2015,</b>	1
1065	A normal form of spiking neural P systems with structural plasticity. <b>2015, 1, 344</b>	6
1064	Assessing the impact of removal scenarios on population viability of a threatened, long-lived avian scavenger. <b>2015, 5, 16962</b>	17
1063	Modeling the consequences of the demise and potential recovery of a keystone-species: wild rabbits and avian scavengers in Mediterranean landscapes. <b>2015, 5, 17033</b>	20
1062	Distribution network reconfiguration based on parallel genetic membrane computing. <b>2015, 29, 2287-2298</b>	
1061	Enhancing the Simulation of Membrane System on the GPU for the N-Queens Problem. <b>2015, 24, 740-743</b>	5
1060	Computational efficiency and universality of timed P systems with membrane creation. <b>2015, 19, 3043-3053</b>	13
1059	A membrane computing simulator of trans-hierarchical antibiotic resistance evolution dynamics in nested ecological compartments (ARES). <b>2015, 10, 41</b>	18
1058	Recent complexity-theoretic results on P systems with active membranes. <b>2015, 25, 1047-1071</b>	5
1057	Reactive power optimization based on modified membrane computing for distribution network with electric vehicles and wind power generation. <b>2015,</b>	
1056	Arithmetic P Systems Based on Arithmetic Formula Tables. <b>2015, 24, 542-549</b>	1
1055	A P_Lingua Based Simulator for P Systems with Symport/Antiport Rules. <b>2015, 139, 211-227</b>	10
1054	A novel clustering algorithm inspired by membrane computing. <b>2015, 2015, 929471</b>	9
1053	Research on P System with Chain Structure and Application and Simulation in Arithmetic Operation. <b>2015, 2015, 1-11</b>	
1052	Fault Diagnosis of Electric Power Systems Based on Fuzzy Reasoning Spiking Neural P Systems. <b>2015, 30, 1182-1194</b>	144
1051	The general entity of life: a cybernetic approach. <b>2015, 109, 401-19</b>	15
1050	Implementation of Arithmetic Operations With Time-Free Spiking Neural P Systems. <b>2015, 14, 617-24</b>	46
1049	Asynchronous P Systems for a Compare-and-Exchange Operation and Sorting. <b>2015,</b>	0

1048	An improved self-adaptive membrane computing optimization algorithm and its applications in residue hydrogenating model parameter estimation. <b>2015</b> , 22, 3909-3915			1
1047	Cell-Like Fuzzy P System and Its Application of Coordination Control in Micro-grid. <b>2015</b> , 18-32			0
1046	Agent-Based High-Performance Simulation of Biological Systems on the GPU. <b>2015</b> ,			5
1045	Parallel Implementation of P Systems for Data Clustering on GPU. <b>2015</b> , 200-211			3
1044	Membrane Computing. <i>Lecture Notes in Computer Science</i> , <b>2015</b> ,	0.9		1
1043	Automation of metabolic P system implementation in FPGA: A case study. <b>2015</b> ,			2
1042	The mechanism of splitting mitochondria in terms of membrane automata. <b>2015</b> ,			3
1041	A bioinspired mathematical model for a robotic swarm to discriminate between self and nonself robots. <b>2015</b> ,			
1040	MpTheory Java library: a multi-platform Java library for systems biology based on the Metabolic P theory. <b>2015</b> , 31, 1328-30			5
1039	An unsupervised learning algorithm for membrane computing. <i>Information Sciences</i> , <b>2015</b> , 304, 80-91	7.7		62
1038	Optimal multi-level thresholding with membrane computing. <b>2015</b> , 37, 53-64			29
1037	Computational efficiency and universality of timed P systems with active membranes. <i>Theoretical Computer Science</i> , <b>2015</b> , 567, 74-86	1.1		16
1036	Asynchronous Spiking Neural P Systems with Anti-Spikes. <b>2015</b> , 42, 633-647			21
1035	Time-free solution to SAT problem by P systems with active membranes and standard cell division rules. <i>Natural Computing</i> , <b>2015</b> , 14, 673-681	1.3		18
1034	Spiking Neural P Systems With Rules on Synapses Working in Maximum Spiking Strategy. <b>2015</b> , 14, 465-477			85
1033	Computing with membranes and picture arrays. <b>2015</b> , 33, 31-42			1
1032	Efficient solutions to hard computational problems by P systems with symport/antiport rules and membrane division. <b>2015</b> , 130, 51-8			21
1031	P Systems with Parallel Rewriting for Chain Code Picture Languages. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 145-155	0.9		9



1030	Decidability of Termination Problems for Sequential P Systems with Active Membranes. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 236-245	0.9	
1029	Uniform Solution to Common Algorithmic Problem by P Systems Working in the Minimally Parallel Mode. <b>2015</b> , 136, 285-296		
1028	Evolving Computability. <i>Lecture Notes in Computer Science</i> , <b>2015</b> ,	0.9	0
1027	The power of time-free tissue P systems: Attacking NP-complete problems. <i>Neurocomputing</i> , <b>2015</b> , 159, 151-156	5.4	19
1026	A uniform solution to integer factorization using time-free spiking neural P system. <b>2015</b> , 26, 1241-1247		5
1025	Spiking neural P systems with structural plasticity. <b>2015</b> , 26, 1905-1917		68
1024	A Property-Driven Methodology for Formal Analysis of Synthetic Biology Systems. <b>2015</b> , 12, 360-71		13
1023	Advances in Visual Informatics. <i>Lecture Notes in Computer Science</i> , <b>2015</b> ,	0.9	3
1022	Unconventional Computation and Natural Computation. <i>Lecture Notes in Computer Science</i> , <b>2015</b> ,	0.9	2
1021	An automatic clustering algorithm inspired by membrane computing. <b>2015</b> , 68, 34-40		39
1020	A novel membrane-inspired algorithm for optimizing solid waste transportation. <b>2015</b> , 126, 3883-3888		11
1019	Programming Languages with Applications to Biology and Security. <i>Lecture Notes in Computer Science</i> , <b>2015</b> ,	0.9	1
1018	Asynchronous spiking neural P systems with rules on synapses. <i>Neurocomputing</i> , <b>2015</b> , 151, 1439-1445	5.4	55
1017	A limitation of cell division in tissue P systems by PSPACE. <i>Journal of Computer and System Sciences</i> , <b>2015</b> , 81, 473-484	1	7
1016	Combine particle swarm optimization algorithm and canonical sign digit to design finite impulse response filter. <b>2015</b> , 19, 407-419		4
1015	A novel membrane algorithm for capacitated vehicle routing problem. <b>2015</b> , 19, 471-482		28
1014	Contextual array grammars and array P systems. <b>2015</b> , 75, 5-26		14
1013	Automata, Universality, Computation. <b>2015</b> ,		

1012	Homogenous Spiking Neural P Systems with Inhibitory Synapses. <b>2015</b> , 42, 199-214		29
1011	Time-Free Solution to 3-Coloring Problem Using Tissue P Systems. <b>2016</b> , 25, 407-412		4
1010	On the Universality of Colored One-Catalyst P Systems. <b>2016</b> , 144, 205-212		3
1009	Bioinspired Intelligent Algorithm and Its Applications for Mobile Robot Control: A Survey. <b>2016</b> , 2016, 3810903		40
1008	Inhomogeneous Weighted Spiking Neural P Systems with Local Homogeneous. <b>2016</b> ,		0
1007	Tissue P Systems With Channel States Working in the Flat Maximally Parallel Way. <b>2016</b> , 15, 645-656		21
1006	Solving Subset Sum Problem Using EN P System with Active Membranes. <b>2016</b> ,		1
1005	Cell-Like P Systems With Channel States and Symport/Antiport Rules. <b>2016</b> , 15, 555-566		24
1004	Bio-inspired Computing Theories and Applications. <b>2016</b> ,		
1003	Image Segmentation Using Membrane Computing: A Literature Survey. <b>2016</b> , 314-335		2
1002	A Hybrid Fast-Slow Convergent Framework for Genetic Algorithm Inspired by Membrane Computing. <b>2016</b> , 75-84		
1001	An Asynchronous P System for MAX-SAT. <b>2016</b> ,		0
1000	The Implementation of Membrane Clustering Algorithm Based on FPGA. <b>2016</b> , 237-248		
999	Spiking Neural P Systems With White Hole Neurons. <b>2016</b> , 15, 666-673		59
998	Computing with viruses. <i>Theoretical Computer Science</i> , <b>2016</b> , 623, 146-159	1.1	24
997	An efficient time-free solution to SAT problem by P systems with proteins on membranes. <i>Journal of Computer and System Sciences</i> , <b>2016</b> , 82, 1090-1099	1	17
996	Flat maximal parallelism in P systems with promoters. <i>Theoretical Computer Science</i> , <b>2016</b> , 623, 83-91	1.1	37
995	A new membrane algorithm using the rules of Particle Swarm Optimization incorporated within the framework of cell-like P-systems to solve Sudoku. <b>2016</b> , 45, 27-39		19

994	On Languages Generated by Cell-Like Spiking Neural P Systems. <b>2016</b> , 15, 455-467		20
993	The computational power of tissue-like P systems with promoters. <i>Theoretical Computer Science</i> , <b>2016</b> , 641, 43-52	1.1	24
992	Maximally Parallel Contextual String Rewriting. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 152-166	0.9	
991	Testing based on identifiable P Systems using cover automata and X-machines. <i>Information Sciences</i> , <b>2016</b> , 372, 565-578	7.7	5
990	Decoder Design Based on Spiking Neural P Systems. <b>2016</b> , 15, 639-644		4
989	Rewriting Logic and Its Applications. <i>Lecture Notes in Computer Science</i> , <b>2016</b> ,	0.9	
988	Biomolecular Computing. <b>2016</b> , 265-281		
987	Design a membrane system for matrix multiplication. <b>2016</b> , 127, 8231-8239		1
986	Numerical P systems with migrating variables. <i>Theoretical Computer Science</i> , <b>2016</b> , 641, 85-108	1.1	15
985	Programs as Polypeptides. <b>2016</b> , 22, 451-482		3
984	Parallel simulation of Population Dynamics P systems: updates and roadmap. <i>Natural Computing</i> , <b>2016</b> , 15, 565-573	1.3	10
983	Simulating P systems with membrane dissolution in a chemical calculus. <i>Natural Computing</i> , <b>2016</b> , 15, 521-532	1.3	2
982	P systems based computing polynomials: design and formal verification. <i>Natural Computing</i> , <b>2016</b> , 15, 591-596	1.3	6
981	On the universality of purely catalytic P systems. <i>Natural Computing</i> , <b>2016</b> , 15, 575-578	1.3	3
980	Tissue P Systems with Protein on Cells. <b>2016</b> , 144, 77-107		17
979	Sequential spiking neural P systems with structural plasticity based on max/min spike number. <b>2016</b> , 27, 1337-1347		25
978	Hybrid membrane computing and pigeon-inspired optimization algorithm for brushless direct current motor parameter design. <b>2016</b> , 59, 1435-1441		6
977	A P system for Hamiltonian cycle problem. <b>2016</b> , 127, 8461-8468		8

976	An Extended Membrane System with Active Membranes to Solve Automatic Fuzzy Clustering Problems. <i>International Journal of Neural Systems</i> , <b>2016</b> , 26, 1650004	6.2	40
975	Research of K-means Clustering Method Based on DNA Genetic Algorithm and P System. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 193-203	0.9	1
974	Solving optimization problems by using networks of evolutionary processors with quantitative filtering. <b>2016</b> , 16, 65-71		2
973	A hybrid evolutionary algorithm based on tissue membrane systems and CMA-ES for solving numerical optimization problems. <b>2016</b> , 105, 38-47		21
972	Investigating dynamic causalities in reaction systems. <i>Theoretical Computer Science</i> , <b>2016</b> , 623, 114-145	1.1	26
971	Advances in Swarm Intelligence. <i>Lecture Notes in Computer Science</i> , <b>2016</b> ,	0.9	1
970	Multiobjective learning algorithm based on membrane systems for optimizing the parameters of extreme learning machine. <b>2016</b> , 127, 1909-1917		7
969	Small (purely) catalytic P systems simulating register machines. <i>Theoretical Computer Science</i> , <b>2016</b> , 623, 65-74	1.1	9
968	A type-sound calculus of computational fields. <b>2016</b> , 117, 17-44		26
967	PQSAR: The membrane quantitative structure-activity relationships in cheminformatics. <b>2016</b> , 54, 219-227		3
966	Evolutionary algorithm based on dynamical structure of membrane systems in uncertain environments. <b>2016</b> , 09, 1650017		5
965	Spiking neural P systems with homogeneous neurons and synapses. <i>Neurocomputing</i> , <b>2016</b> , 171, 1548-1555		16
964	Using a new PDP modelling approach for land-use and land-cover change predictions: A case study in the Stubai Valley (Central Alps). <b>2016</b> , 322, 101-114		14
963	Modelling and verification of weighted spiking neural systems. <i>Theoretical Computer Science</i> , <b>2016</b> , 623, 92-102	1.1	9
962	A hybrid approach based on tissue P systems and artificial bee colony for IIR system identification. <b>2017</b> , 28, 2675-2685		6
961	Membrane automata for modeling biomolecular processes. <i>Natural Computing</i> , <b>2017</b> , 16, 151-163	1.3	11
960	Tissue-like P systems with evolutionary symport/antiport rules. <i>Information Sciences</i> , <b>2017</b> , 378, 177-193	7.7	72
959	Review: Multi-objective optimization methods and application in energy saving. <b>2017</b> , 125, 681-704		255

958	Data Modeling with Membrane Systems: Applications to Real Ecosystems. <b>2017</b> , 259-355		2
957	A toolbox for simpler active membrane algorithms. <i>Theoretical Computer Science</i> , <b>2017</b> , 673, 42-57	1.1	6
956	A detailed experimental study of a DNA computer with two endonucleases. <b>2017</b> , 72, 303-313		1
955	The best models of metabolism. <b>2017</b> , 9, e1391		27
954	A time-free uniform solution to subset sum problem by tissue P systems with cell division. <b>2017</b> , 27, 17-32		27
953	Combinatorial Image Analysis. <i>Lecture Notes in Computer Science</i> , <b>2017</b> ,	0.9	
952	On Hardware Programmable Network Dynamics With a Chemistry-Inspired Abstraction. <b>2017</b> , 25, 2054-2067		2
951	Multiobjective fuzzy clustering approach based on tissue-like membrane systems. <b>2017</b> , 125, 74-82		55
950	Modeling regenerative processes with membrane computing. <i>Information Sciences</i> , <b>2017</b> , 381, 229-249	7.7	26
949	QM Automata: A New Class of Restricted Quantum Membrane Automata. <b>2017</b> , 988, 193-204		1
948	Spiking neural P systems with multiple channels. <b>2017</b> , 95, 66-71		71
947	A membrane-inspired bat algorithm to recognize faces in unconstrained scenarios. <b>2017</b> , 64, 242-260		19
946	Characterising the complexity of tissue P systems with fission rules. <i>Journal of Computer and System Sciences</i> , <b>2017</b> , 90, 115-128	1	13
945	Reaching efficiency through collaboration in membrane systems: Dissolution, polarization and cooperation. <i>Theoretical Computer Science</i> , <b>2017</b> , 701, 226-234	1.1	14
944	Feedforward Chemical Neural Network: An In Silico Chemical System That Learns xor. <b>2017</b> , 23, 295-317		13
943	A Novel Osmosis-Inspired Algorithm for Multiobjective Optimization. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 80-88	0.9	1
942	Community Detection in Networks by Using Multiobjective Membrane Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 419-428	0.9	
941	P Systems Simulating Bacterial Conjugation: Universality and Properties. <b>2017</b> , 153, 87-103		1

940	A distributed approach to the control of multi-robot systems using XP colonies. <b>2017</b> , 25, 15-29			8
939	An efficient time-free solution to QSAT problem using P systems with proteins on membranes. <b>2017</b> , 256, 287-299			14
938	Cell-Like Spiking Neural P Systems With Request Rules. <b>2017</b> , 16, 513-522			27
937	Proximity-Based Federation of Smart Objects and Their Application Framework. <b>2017</b> , 411-439			1
936	Cell-like P-systems using deterministic update rules to solve Sudoku. <b>2017</b> , 8, 857-866			
935	Kernel P Systems and Stochastic P Systems for Modelling and Formal Verification of Genetic Logic Gates. <b>2017</b> , 661-675			5
934	Looking for Computers in the Biological Cell. After Twenty Years. <b>2017</b> , 805-853			
933	Insertion membrane-sorter using comparator P system. <b>2017</b> ,			0
932	Small asynchronous P systems with inhibitors defining non-semilinear sets. <i>Theoretical Computer Science</i> , <b>2017</b> , 701, 12-19		1.1	1
931	Competitive Spiking Neural P Systems With Rules on Synapses. <b>2017</b> , 16, 888-895			25
930	Spiking Neural P Systems with Rules on Synapses Working in Sum Spikes Consumption Strategy. <b>2017</b> , 156, 187-208			4
929	Fault diagnosis of power systems using fuzzy tissue-like P systems. <b>2017</b> , 24, 401-411			32
928	An Asynchronous P System Using Branch and Bound for the Satisfiability Problem. <b>2017</b> ,			
927	Spiking Neural P Systems With Scheduled Synapses. <b>2017</b> , 16, 792-801			68
926	Modelling multi-robot interactions using a generic controller based on numerical P systems and ROS. <b>2017</b> ,			3
925	Reaction Networks as a Language for Systemic Modeling: Fundamentals and Examples. <b>2017</b> , 5, 11			12
924	GA-Based Membrane Evolutionary Algorithm for Ensemble Clustering. <b>2017</b> , 2017, 4367342			12
923	A kNN classifier optimized by P systems. <b>2017</b> ,			1

922	Time-Free Solution to SAT Problem by Tissue P Systems. <b>2017</b> , 2017, 1-8		3
921	An Improved Apriori Algorithm Based on an Evolution-Communication Tissue-Like P System with Promoters and Inhibitors. <b>2017</b> , 2017, 1-11		10
920	A Multiple Core Execution for Multiobjective Binary Particle Swarm Optimization Feature Selection Method with the Kernel P System Framework. <b>2017</b> , 2017, 1-14		1
919	Bio-inspired parallel computing of representative geometrical objects of holes of binary 2D-images. <b>2017</b> , 9, 77		2
918	MCIR: A Multi-modal Image Registration Algorithm Based on Membrane Computing. <b>2017</b> ,		2
917	Nature-Inspired Algorithms and Systems. <b>2017</b> , 33-63		1
916	An Improved MST Clustering Algorithm Based on Membrane Computing. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 1-12	0.9	1
915	Community detection in complex networks by using membrane algorithm. <b>2018</b> , 29, 1850003		7
914	Controlled Reversibility in Reaction Systems. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 40-53	0.9	6
913	Hybrid Modeling for Endpoint Carbon Content Prediction in EAF Steelmaking. <b>2018</b> , 211-224		0
912	Language generating alphabetic flat splicing P systems. <i>Theoretical Computer Science</i> , <b>2018</b> , 724, 28-34	1.1	4
911	The computational power of enzymatic numerical P systems working in the sequential mode. <i>Theoretical Computer Science</i> , <b>2018</b> , 724, 3-12	1.1	1
910	Solving the N-Queens problem using dP systems with active membranes. <i>Theoretical Computer Science</i> , <b>2018</b> , 736, 1-14	1.1	3
909	Spiking neural P systems with rules on synapses and anti-spikes. <i>Theoretical Computer Science</i> , <b>2018</b> , 724, 13-27	1.1	7
908	Membrane Computing. <i>Lecture Notes in Computer Science</i> , <b>2018</b> ,	0.9	1
907	Predictors for flat membrane systems. <i>Theoretical Computer Science</i> , <b>2018</b> , 736, 79-102	1.1	4
906	Engineering a lunar photolithoautotroph to thrive on the moon ☐life or simulacrum?. <b>2018</b> , 17, 258-280		3
905	A skin membrane-driven membrane algorithm for many-objective optimization. <b>2018</b> , 30, 141-152		5

904	On simulating cooperative transition P systems in evolution communication P systems with energy. <i>Natural Computing</i> , <b>2018</b> , 17, 333-343	1.3	4
903	Fault Diagnosis of Power Systems Using Intuitionistic Fuzzy Spiking Neural P Systems. <b>2018</b> , 9, 4777-4784		73
902	Generalized contexts for reaction systems: definition and study of dynamic causalities. <b>2018</b> , 55, 227-267		12
901	A uniform family of tissue P systems with protein on cells solving 3-coloring in linear time. <i>Natural Computing</i> , <b>2018</b> , 17, 311-319	1.3	3
900	Local reversibility in a Calculus of Covalent Bonding. <b>2018</b> , 151, 18-47		8
899	PAME: Evolutionary membrane computing for virtual network embedding. <b>2018</b> , 111, 136-151		10
898	Universal enzymatic numerical P systems with small number of enzymatic variables. <b>2018</b> , 61, 1		9
897	Kernel P systems: From modelling to verification and testing. <i>Theoretical Computer Science</i> , <b>2018</b> , 724, 45-60	1.1	8
896	A tissue P system based evolutionary algorithm for multi-objective VRPTW. <b>2018</b> , 39, 310-322		13
895	Extended spiking neural P systems with white hole rules and their red-green variants. <i>Natural Computing</i> , <b>2018</b> , 17, 297-310	1.3	5
894	Some new results of P colonies with bounded parameters. <i>Natural Computing</i> , <b>2018</b> , 17, 321-332	1.3	3
893	Spiking Neural P Systems With Polarizations. <b>2018</b> , 29, 3349-3360		54
892	On GPU-Oriented P Systems. <b>2018</b> ,		
891	A Parallel Bioinspired Framework for Numerical Calculations Using Enzymatic P System With an Enzymatic Environment. <b>2018</b> , 6, 65548-65556		12
890	Insertion Sorter in P Systems. <b>2018</b> , 976, 012004		0
889	An improved DBSCAN algorithm based on cell-like P systems with promoters and inhibitors. <i>PLoS ONE</i> , <b>2018</b> , 13, e0200751	3.7	5
888	A Novel Framework for FIR Digital Filter Design Based on P system with PSO. <b>2018</b> ,		0
887	Chocolate P Automata. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 1-20	0.9	



886	The role of integral membrane proteins in computational complexity theory. <b>2018</b> , 10, 193-202		3
885	A Kernel-Based Membrane Clustering Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 318-329	0.9	1
884	Enjoying Natural Computing. <i>Lecture Notes in Computer Science</i> , <b>2018</b> ,	0.9	2
883	Solving the N-Queens Puzzle by Using Few Membranes. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 21-32	0.9	
882	. <b>2018</b> , 6, 46630-46642		16
881	An Improved DNA Genetic Algorithm Based on Cell-Like P System with Dynamic Membrane Structure. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 168-177	0.9	
880	P colonies and kernel P systems. <b>2018</b> , 10, 181-192		3
879	P Systems-Based Computing Polynomials With Integer Coefficients: Design and Formal Verification. <b>2018</b> , 17, 272-280		3
878	An Improved Spectral Clustering Algorithm Based on Dynamic Tissue-Like Membrane System. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 433-442	0.9	
877	A Simulator for Cell-Like P System. <b>2018</b> , 223-235		1
876	The computation power of tissue P systems with flip-flop channel states. <b>2018</b> , 10, 213-220		1
875	On the expressiveness of $\lambda$ -calculus for encoding mobile ambients. <b>2018</b> , 28, 202-240		4
874	Simplified and Yet Turing Universal Spiking Neural P Systems with Communication on Request. <i>International Journal of Neural Systems</i> , <b>2018</b> , 28, 1850013	6.2	78
873	A comprehensive review on parameter estimation techniques for Proton Exchange Membrane fuel cell modelling. <b>2018</b> , 93, 121-144		81
872	Tissue P Systems with Cooperating Rules. <b>2018</b> , 27, 324-333		6
871	The Computational Complexity of Tissue P Systems with Evolutional Symport/Antiport Rules. <b>2018</b> , 2018, 1-21		16
870	Robot path planning using rapidly-exploring random trees: A membrane computing approach. <b>2018</b> ,		1
869	Automatic quantification of choroidal neovascularization lesion area on OCT angiography based on density cell-like P systems with active membranes. <b>2018</b> , 9, 3208-3219		19

868	Parallel contextual array P systems. <b>2018</b> , 10, 203-212	3
867	Small Universal Bacteria and Plasmid Computing Systems. <b>2018</b> , 23,	12
866	Control words of string rewriting P systems. <b>2018</b> , 10, 230-235	0
865	Applications of P Systems. <b>2018</b> , 535-548	
864	Networks in Biology. <b>2019</b> , 915-921	4
863	A membrane computing framework for self-reconfigurable robots. <i>Natural Computing</i> , <b>2019</b> , 18, 635-646.3	2
862	Stochastic simulation of quorum sensing in <i>Vibrio fischeri</i> based on P System. <b>2019</b> , 10, 167-177	
861	Automatic Implementation of Fuzzy Reasoning Spiking Neural P Systems for Diagnosing Faults in Complex Power Systems. <b>2019</b> , 2019, 1-16	20
860	Solution to PSPACE-Complete Problem Using P Systems with Active Membranes with Time-Freeness. <b>2019</b> , 2019, 1-8	18
859	Deep membrane systems for multitask segmentation in diabetic retinopathy. <b>2019</b> , 183, 104887	22
858	Cell-like spiking neural P systems with evolution rules. <b>2019</b> , 23, 5401-5409	4
857	. <b>2019</b> , 7, 66055-66067	6
856	A Resolution-Free Parallel Algorithm for Image Edge Detection within the Framework of Enzymatic Numerical P Systems. <b>2019</b> , 24,	6
855	P-Lingua in two steps: flexibility and efficiency. <i>Journal of Membrane Computing</i> , <b>2019</b> , 1, 93-102	4 17
854	A P system model of swarming and aggregation in a Myxobacterial colony. <i>Journal of Membrane Computing</i> , <b>2019</b> , 1, 103-111	4 7
853	Production optimization and energy saving of complex chemical processes using novel competing evolutionary membrane algorithm: Emphasis on ethylene cracking. <b>2019</b> , 196, 311-319	10
852	Molecular Computing and Bioinformatics. <b>2019</b> , 24,	6
851	Efficient FPGA Implementation of Circuits Based on Spiking Neural P Systems. <b>2019</b> ,	

850	Hyperparameter optimization in learning systems. <i>Journal of Membrane Computing</i> , <b>2019</b> , 1, 279-291	4	14
849	An Improved Eclat Algorithm Based on Tissue-Like P System with Active Membranes. <b>2019</b> , 7, 555		2
848	Unsupervised Segmentation of Choroidal Neovascularization for Optical Coherence Tomography Angiography by Grid Tissue-Like Membrane Systems. <b>2019</b> , 7, 143058-143066		4
847	Sparse Linear Array Design via Membrane Algorithm. <b>2019</b> ,		0
846	. <b>2019</b> , 7, 156787-156803		46
845	Spiking neural P systems with multiple channels and polarizations. <b>2019</b> , 185, 104020		1
844	Communication P Systems with Channel States Working in Flat Maximally Parallel Manner. <b>2019</b> , 168, 1-24		1
843	Hybrid Chain-Hypergraph P Systems for Multiobjective Ensemble Clustering. <b>2019</b> , 7, 143511-143523		3
842	Turing complete neural computation based on synaptic plasticity. <i>PLoS ONE</i> , <b>2019</b> , 14, e0223451	3.7	4
841	An improved MkNN clustering algorithm based on graph theory and membrane computing. <b>2019</b> , 19, 603-617		
840	Modeling Evacuation of High-Rise Buildings Based on Intelligence Decision P System. <i>Sustainability</i> , <b>2019</b> , 11, 4685	3.6	5
839	Sensor Fusion for Autonomous Drone Waypoint Navigation Using ROS and Numerical P Systems: A Critical Analysis of Its Advantages and Limitations. <b>2019</b> ,		2
838	Variants of P systems with activation and blocking of rules. <i>Natural Computing</i> , <b>2019</b> , 18, 593-608	1.3	3
837	An interactive timeline of simulators in membrane computing. <i>Journal of Membrane Computing</i> , <b>2019</b> , 1, 209-222	4	11
836	P colonies. <i>Journal of Membrane Computing</i> , <b>2019</b> , 1, 178-197	4	9
835	Generating context-free languages using spiking neural P systems with structural plasticity. <i>Journal of Membrane Computing</i> , <b>2019</b> , 1, 161-177	4	20
834	MEAMVC: A Membrane Evolutionary Algorithm for Solving Minimum Vertex Cover Problem. <b>2019</b> , 7, 60774-60784		12
833	Membrane computing. <b>2019</b> , 1-2		

832	Numerical P systems with Boolean condition. <i>Theoretical Computer Science</i> , <b>2019</b> , 785, 140-149	1.1	5
831	A P system for hierarchical clustering. <b>2019</b> , 30, 1950062		1
830	The Computational Power of Cell-like P Systems with Symport/Antiport Rules and Promoters. <b>2019</b> , 164, 207-225		2
829	Mobile robot path planning using membrane evolutionary artificial potential field. <b>2019</b> , 77, 236-251		116
828	Simulating Multilevel Dynamics of Antimicrobial Resistance in a Membrane Computing Model. <b>2019</b> , 10,		18
827	A Cross-Entropy-Based Hybrid Membrane Computing Method for Power System Unit Commitment Problems. <b>2019</b> , 12, 486		2
826	Generalized Membrane Systems with Dynamical Structure, Petri Nets, and Multiset Approximation Spaces. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 15-29	0.9	1
825	Membrane Systems and Multiset Approximation: The Cases of Inner and Boundary Rule Application. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 239-252	0.9	0
824	UPSimulator: A general P system simulator. <b>2019</b> , 170, 20-25		16
823	A deadlock resolution strategy based on spiking neural P systems. <b>2019</b> , 1		11
822	On Small Universality of Spiking Neural P Systems with Multiple Channels. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 229-245	0.9	4
821	Membrane computing and image processing: a short survey. <i>Journal of Membrane Computing</i> , <b>2019</b> , 1, 58-73	4	47
820	P systems with proteins: a new frontier when membrane division disappears. <i>Journal of Membrane Computing</i> , <b>2019</b> , 1, 29-39	4	12
819	Minimal cooperation as a way to achieve the efficiency in cell-like membrane systems. <i>Journal of Membrane Computing</i> , <b>2019</b> , 1, 85-92	4	17
818	Inference of bounded L systems with polymorphic P systems. <i>Journal of Membrane Computing</i> , <b>2019</b> , 1, 52-57	4	5
817	Testing Identifiable Kernel P Systems Using an X-Machine Approach. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 142-159	0.9	
816	Membrane Computing. <i>Lecture Notes in Computer Science</i> , <b>2019</b> ,	0.9	1
815	Spiking Neural P Systems With Learning Functions. <b>2019</b> , 18, 176-190		60

814	An Improved BTK Algorithm Based on Cell-Like P System with Active Membranes. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 36-48	0.9	
813	Impacts of Membrane Computing on Theoretical Computer Science (Extended Abstract). <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 3-9	0.9	
812	Tissue P Systems with Point Mutation Rules. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 33-56	0.9	
811	Theory of tailor automata. <i>Theoretical Computer Science</i> , <b>2019</b> , 785, 60-82	1.1	0
810	Enhanced Membrane Computing Algorithm for SAT Problems Based on the Splitting Rule. <b>2019</b> , 11, 1412		1
809	Improved SPFA Algorithm Based on Cell-Like P System. <b>2019</b> ,		0
808	An Asynchronous P System Using Branch and Bound for Minimum Graph Coloring. <b>2019</b> ,		
807	An Asynchronous P System with Branch and Bound for Solving Hamiltonian Cycle Problem. <b>2019</b> ,		
806	Membrane System-based Optimization Algorithm for Numeric Optimization Problem. <b>2019</b> ,		
805	A Multi-population Genetic Algorithm Based on Dynamic P System for Solving Constrained Optimization Problems. <b>2019</b> ,		1
804	Tissue-Like P System with Mutational Symport/Antiport Rules and Trigger Mechanism. <b>2019</b> ,		
803	Basic Mathematical Operations in Membrane Computing. <b>2019</b> ,		
802	A Survey on Nature-Inspired Medical Image Analysis: A Step Further in Biomedical Data Integration. <b>2019</b> , 171, 345-365		19
801	New Results on Vector and Homing Vector Automata. <i>International Journal of Foundations of Computer Science</i> , <b>2019</b> , 30, 1335-1361	0.6	1
800	Search-based testing in membrane computing. <i>Journal of Membrane Computing</i> , <b>2019</b> , 1, 241-250	4	3
799	P Systems with Rule Production and Removal. <b>2019</b> , 171, 313-329		3
798	Spiking neural P grey wolf optimization system: Novel strategies for solving non-determinism problems. <b>2019</b> , 121, 204-220		6
797	A membrane algorithm based on chemical reaction optimization for many-objective optimization problems. <b>2019</b> , 165, 306-320		12

796	Coupled Neural P Systems. <b>2019</b> , 30, 1672-1682		60
795	. <b>2019</b> , 7, 12798-12808		27
794	A path to computational efficiency through membrane computing. <i>Theoretical Computer Science</i> , <b>2019</b> , 777, 443-453	1.1	10
793	Computation power of asynchronous spiking neural P systems with polarizations. <i>Theoretical Computer Science</i> , <b>2019</b> , 777, 474-489	1.1	12
792	Dynamic threshold neural P systems. <b>2019</b> , 163, 875-884		59
791	Membrane computing inspired protocol to enhance security in cloud network. <b>2019</b> , 75, 2181-2192		1
790	A uniform solution to SAT problem by symport/antiport P systems with channel states and membrane division. <b>2019</b> , 23, 3903-3911		3
789	The computational power of timed P systems with active membranes using promoters. <b>2019</b> , 29, 663-680		2
788	On the Computational Power of Asynchronous Axon Membrane Systems. <b>2020</b> , 4, 696-704		5
787	A two-stage flow-shop scheduling problem with incompatible job families and limited waiting time. <b>2020</b> , 52, 484-506		7
786	P systems with symport/antiport rules: When do the surroundings matter?. <i>Theoretical Computer Science</i> , <b>2020</b> , 805, 206-217	1.1	5
785	When object production tunes the efficiency of membrane systems. <i>Theoretical Computer Science</i> , <b>2020</b> , 805, 218-231	1.1	2
784	P systems with randomized right-hand sides of rules. <i>Theoretical Computer Science</i> , <b>2020</b> , 805, 144-160	1.1	4
783	Two notes on APCol systems. <i>Theoretical Computer Science</i> , <b>2020</b> , 805, 161-174	1.1	
782	Spiking neural P systems with structural plasticity and anti-spikes. <i>Theoretical Computer Science</i> , <b>2020</b> , 801, 143-156	1.1	2
781	Evolutionary Multi-Objective Membrane Algorithm. <b>2020</b> , 8, 6020-6031		6
780	Spiking neural P systems with inhibitory rules. <b>2020</b> , 188, 105064		34
779	kNN-P: A kNN classifier optimized by P systems. <i>Theoretical Computer Science</i> , <b>2020</b> , 817, 55-65	1.1	10

778	How derivation modes and halting conditions may influence the computational power of P systems. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 14-25	4	10
777	Small universal asynchronous spiking neural P systems with multiple channels. <i>Neurocomputing</i> , <b>2020</b> , 378, 1-8	5.4	7
776	Nonlinear Spiking Neural P Systems. <i>International Journal of Neural Systems</i> , <b>2020</b> , 30, 2050008	6.2	25
775	Multi-ENPS simulator support tool with automatic file inter-conversion and multi-membrane execution. <b>2020</b> , 189, 104067		
774	Cell-like P systems with polarizations and minimal rules. <i>Theoretical Computer Science</i> , <b>2020</b> , 816, 1-18	1.1	8
773	An Adaptive Memetic P System to Solve the 0/1 Knapsack Problem. <b>2020</b> ,		1
772	Spiking Neural P Systems with Astrocytes Producing Calcium. <i>International Journal of Neural Systems</i> , <b>2020</b> , 30, 2050066	6.2	5
771	Turing Universality of Weighted Spiking Neural P Systems with Anti-spikes. <b>2020</b> , 2020, 8892240		1
770	Recent Advances in Data Science. <b>2020</b> ,		
769	Timed Homeostasis Tissue-Like P Systems With Evolutional Symport/Antiport Rules. <b>2020</b> , 8, 131414-131424		4
768	Novel coupled DP system for fuzzy C-means clustering and image segmentation. <b>2020</b> , 50, 4378-4393		5
767	Artificial Life and Evolutionary Computation. <b>2020</b> ,		1
766	From P systems to morphogenetic systems: an overview and open problems. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 380-391	4	2
765	Generating pictures in string representation with P systems: the case of space-filling curves. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 369-379	4	4
764	Computing with SN P systems with I/O mode. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 230-245	4	5
763	The computational power of cell-like P systems with one protein on membrane. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 332-340	4	2
762	An Improved Consensus Clustering Algorithm Based on Cell-Like P Systems With Multi-Catalysts. <b>2020</b> , 8, 154502-154517		5
761	Mutual exclusion and reversibility in reaction systems. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 171-178		1

760	Seeking computational efficiency boundaries: the P <sub>in</sub> conjecture. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 323-331	4	2
759	Sequential dynamic threshold neural P systems. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 255-268	4	7
758	Description of membrane systems with time Petri nets: promoters/inhibitors, membrane dissolution, and priorities. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 341-354	4	2
757	Dynamic Threshold Neural P Systems with Multiple Channels and Inhibitory Rules. <b>2020</b> , 8, 1281		2
756	Simplified and yet Turing universal spiking neural P systems with polarizations optimized by anti-spikes. <i>Neurocomputing</i> , <b>2020</b> , 414, 255-266	5-4	6
755	A Novel Consensus Fuzzy K-Modes Clustering Using Coupling DNA-Chain-Hypergraph P System for Categorical Data. <b>2020</b> , 8, 1326		3
754	A survey of gene regulatory networks modelling methods: from differential equations, to Boolean and qualitative bioinspired models. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 207-226	4	10
753	Simulating reversible computation with reaction systems. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 179-193		2
752	Spiking Neural P Systems with Polarizations and Rules on Synapses. <b>2020</b> , 2020, 1-12		3
751	Simultaneous polydirectional transport of colloidal bipeds. <b>2020</b> , 11, 4670		5
750	MEATSP: A Membrane Evolutionary Algorithm for Solving TSP. <b>2020</b> , 8, 199081-199096		5
749	A Bio-Inspired Model of Picture Array Generating P System with Restricted Insertion Rules. <b>2020</b> , 10, 8306		
748	Solving a PSPACE-complete problem with cP systems. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 311-322	4	4
747	Simulating counting oracles with cooperation. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 303-310	4	1
746	On Applications of Spiking Neural P Systems. <b>2020</b> , 10, 7011		8
745	A rough set-based bio-inspired fault diagnosis method for electrical substations. <b>2020</b> , 119, 105961		67
744	A membrane parallel rapidly-exploring random tree algorithm for robotic motion planning. <b>2020</b> , 27, 121-138		32
743	Networks of Reaction Systems. <i>International Journal of Foundations of Computer Science</i> , <b>2020</b> , 31, 53-71	6	14



742	Reversible Computation: Extending Horizons of Computing. <i>Lecture Notes in Computer Science</i> , <b>2020</b> ,	0.9	7
741	A diffusion algorithm based on P systems for continuous global optimization. <b>2020</b> , 44, 101112		5
740	A weighted corrective fuzzy reasoning spiking neural P system for fault diagnosis in power systems with variable topologies. <b>2020</b> , 92, 103680		59
739	Cell-like P systems with evolutionary symport/antiport rules and membrane creation. <b>2020</b> , 275, 104542		30
738	Local Synchronization on Asynchronous Tissue P Systems With Symport/Antiport Rules. <b>2020</b> , 19, 315-320		5
737	Automata complete computation with Hodgkin-Huxley neural networks composed of synfire rings. <b>2020</b> , 126, 312-334		1
736	Attitude Optimization Control of Unmanned Helicopter in Coal Mine Using Membrane Computing. <b>2020</b> , 2020, 1-11		0
735	Tissue P systems with promoter simulation with MeCoSim and P-Lingua framework. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 95-107	4	6
734	Distributed computation of a k P systems with active membranes for SAT using clause completion. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 108-120	4	5
733	kPWorkbench: A software suit for membrane systems. <b>2020</b> , 11, 100407		3
732	GPUPeP: Parallel Enzymatic Numerical P System simulator with a Python-based interface. <b>2020</b> , 196, 104186		2
731	. <b>2020</b> , 8, 31507-31518		2
730	An Extended Clustering Membrane System Based on Particle Swarm Optimization and Cell-Like P System with Active Membranes. <b>2020</b> , 2020, 1-18		3
729	A Turing machine simulation by P systems without charges. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 71-79	4	5
728	Adaptative parallel simulators for bioinspired computing models. <b>2020</b> , 107, 469-484		8
727	A survey of results on evolution-communication P systems with energy. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 59-69	4	7
726	Formal verification of cP systems using PAT3 and ProB. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 80-94	4	4
725	Dendrite P systems. <b>2020</b> , 127, 110-120		27

724	The computation power of spiking neural P systems with polarizations adopting sequential mode induced by minimum spike number. <i>Neurocomputing</i> , <b>2020</b> , 401, 392-404	5.4	8
723	Multi-behaviors coordination controller design with enzymatic numerical P systems for robots. <b>2021</b> , 28, 119-140		9
722	Reliability evaluation of distribution network based on fuzzy spiking neural P system with self-synapse. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 51-62	4	5
721	Applications of Cuckoo Search Algorithm and its Variants. <b>2021</b> ,		1
720	Modeling diel vertical migration with membrane computing. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 35-50	4	2
719	An Adaptive Optimization Spiking Neural P System for Binary Problems. <i>International Journal of Neural Systems</i> , <b>2021</b> , 31, 2050054	6.2	33
718	Flooding region growing: a new parallel image segmentation model based on membrane computing. <b>2021</b> , 18, 37-55		2
717	Homeostasis Tissue-Like P Systems. <b>2021</b> , 20, 126-136		4
716	Numerical Spiking Neural P Systems. <b>2021</b> , 32, 2443-2457		17
715	Spiking Neural P Systems with Delay on Synapses. <i>International Journal of Neural Systems</i> , <b>2021</b> , 31, 2050042	6.2	10
714	Monodirectional Tissue P Systems With Promoters. <b>2021</b> , 51, 438-450		27
713	Deep ensemble neural-like P systems for segmentation of central serous chorioretinopathy lesion. <b>2021</b> , 65, 84-94		5
712	A novel bat algorithm with dynamic membrane structure for optimization problems. <b>2021</b> , 51, 1992-2017		22
711	Spiking neural P systems with target indications. <i>Theoretical Computer Science</i> , <b>2021</b> , 862, 250-261	1.1	6
710	Monodirectional tissue P systems with channel states. <i>Information Sciences</i> , <b>2021</b> , 546, 206-219	7.7	16
709	Deep hybrid neural-like P systems for multiorgan segmentation in head and neck CT/MR images. <b>2021</b> , 168, 114446		5
708	Membrane-based models for service selection in cloud. <i>Information Sciences</i> , <b>2021</b> , 558, 103-123	7.7	2
707	Reducing control alphabet size for the control of right linear grammars with unknown behaviors. <i>Theoretical Computer Science</i> , <b>2021</b> , 862, 193-213	1.1	1

706	Computational power of dynamic threshold neural P systems for generating string languages. <i>Theoretical Computer Science</i> , <b>2021</b> , 851, 77-91	1.1	1
705	Proof techniques in Membrane Computing. <i>Theoretical Computer Science</i> , <b>2021</b> , 862, 236-249	1.1	
704	Fundamental results for learning deterministic extended finite state machines from queries. <i>Theoretical Computer Science</i> , <b>2021</b> , 862, 160-173	1.1	0
703	Small SNQ P Systems with multiple types of spikes. <i>Theoretical Computer Science</i> , <b>2021</b> , 862, 14-23	1.1	2
702	Spiking Neural P Systems with Extended Channel Rules. <i>International Journal of Neural Systems</i> , <b>2021</b> , 31, 2050049	6.2	9
701	Membrane computing. <b>2021</b> , 36, 1-2		1
700	Simulation of pedestrian behaviours in high-rise buildings based on Intelligence Decision P System. <b>2021</b> , 36, 28-43		
699	Fault location of distribution network with distributed generations using electrical synaptic transmission-based spiking neural P systems. <b>2021</b> , 36, 11-27		3
698	Partial Array Token Petri Net and P System. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 135-152	0.9	1
697	GPU Accelerated Membrane Evolutionary Artificial Potential Field for Mobile Robot Path Planning. <b>2021</b> , 233-247		0
696	An Improved Spectral Clustering Based on Tissue-like P System. <b>2021</b> , 471-480		0
695	Introduction. <b>2021</b> , 1-9		
694	P Systems Implementation on P-Lingua Framework. <b>2021</b> , 11-30		
693	An optimal operation method of cascade hydro-PV-pumped storage generation system based on multi-objective stochastic numerical P systems. <b>2021</b> , 13, 016301		2
692	P System as a Computing Tool for Embedded Feature Selection and Classification Method for Microarray Cancer Data. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 94-125	0.9	
691	Evolutionary Computation and Intelligence. <b>2021</b> , 143-171		
690	Antibiotic resistance: Time of synthesis in a post-genomic age. <b>2021</b> , 19, 3110-3124		6
689	Multi-Objective Algorithm Based on Tissue P System for Solving Tri-objective Grain Dispatching and Transportation. <b>2021</b> , 534-559		

688	The information propagation model of Weibo network based on spiking neural p systems. <b>2021</b> , 2, 135-142		
687	An Editable k-Nearest Neighbor Classifier Based on Tissue-Like P Systems. <b>2021</b> , 596-610		
686	Cell-Like P Systems with Request Rules and Rules Production/Removal. <b>2021</b> , 582-595		
685	Improved Hybrid Heuristic Algorithm Inspired by Tissue-Like Membrane System to Solve Job Shop Scheduling Problem. <b>2021</b> , 9, 219		5
684	Certain State Sequences Defined by P Systems with Reactions. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 153-160	0.9	
683	Rule synchronization for tissue P systems. <b>2021</b> , 104685		3
682	Applications of Software Implementations of P Systems. <b>2021</b> , 31-69		
681	An Improved CF Tree Clustering Based on Tissue-Like P System. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 368-381	0.9	
680	Homogeneous spiking neural P systems with structural plasticity. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 10-21	4	10
679	On Numerical 2D P Colonies Modelling the Grey Wolf Optimization Algorithm. <b>2021</b> , 9, 330		2
678	Parallel contextual array insertion deletion P systems and Siromoney matrix grammars. <b>2021</b> , 36, 335-358		1
677	Noises Cutting and Natural Neighbors Spectral Clustering Based on Coupling P System. <b>2021</b> , 9, 439		2
676	P systems with limited number of objects. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 1-9	4	3
675	Improved Biogeography-Based Optimization Algorithm by Hierarchical Tissue-Like P System with Triggering Ablation Rules. <b>2021</b> , 2021, 1-24		3
674	Emergence of random selections in evolution of biological populations. <i>Theoretical Computer Science</i> , <b>2021</b> , 862, 130-143	1.1	
673	Theory of reaction automata: a survey. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 63-85	4	1
672	An In Vivo Proposal of Cell Computing Inspired by Membrane Computing. <b>2021</b> , 9, 511		1
671	Division rules for tissue P systems inspired by space filling curves. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 105-115	4	4

670	Tuning Frontiers of Efficiency in Tissue P Systems with Evolutional Communication Rules. <b>2021</b> , 2021, 1-14		3
669	Spiking neural P systems: matrix representation and formal verification. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 133-148	4	4
668	Simulation of Spiking Neural P Systems with Sparse Matrix-Vector Operations. <b>2021</b> , 9, 690		4
667	A Survey of Nature-Inspired Computing. <b>2021</b> , 54, 1-31		13
666	Adding Matrix Control: Insertion-Deletion Systems with Substitutions III. <b>2021</b> , 14, 131		1
665	Real-Time Evacuation Strategy Based on Cell-Inspired Simulation Model. <b>2021</b> , 20, 202-211		0
664	Neural-like P systems with plasmids. <b>2021</b> , 104766		4
663	An efficient labelled nested multiset unification algorithm. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 194-204	4	3
662	The computational power of monodirectional tissue P systems with symport rules. <b>2021</b> , 281, 104751		2
661	A Review of Power System Fault Diagnosis with Spiking Neural P Systems. <b>2021</b> , 11, 4376		2
660	Hilbert words as arrays generated with P systems. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 163-169	4	1
659	Spiking neural P systems with a flat maximally parallel use of rules. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 221-231	4	6
658	A membrane computing optimization algorithm with multi-subsystems for parameter estimation of heavy oil thermal cracking model. 1		
657	Control Languages Accepted by Labelled Spiking Neural P Systems with Rules on Synapses. <i>Theoretical Computer Science</i> , <b>2021</b> ,	1.1	0
656	A survey of the development of biomimetic intelligence and robotics. <b>2021</b> , 1, 100001		11
655	Computational completeness of sequential spiking neural P systems with inhibitory rules. <b>2021</b> , 281, 104786		0
654	Comparison of Pandemic Intervention Policies in Several Building Types Using Heterogeneous Population Model.		1
653	Nonlinear neural P systems for generating string languages. <b>2021</b> , 281, 104789		

652	When catalytic P systems with one catalyst can be computationally complete. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 170-181	4	1
651	Formal verification of cP systems using Coq. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 205-220	4	0
650	Photovoltaic cell model parameter optimization using micro-charge field effect P systems. <b>2021</b> , 104, 104374		1
649	Multi-objective algorithm based on tissue P system for solving tri-objective optimization problems. 1		1
648	P SystemBased Clustering Methods Using NoSQL Databases. <b>2021</b> , 9, 102		0
647	Turing completeness of water computing. <i>Journal of Membrane Computing</i> , <b>2021</b> , 3, 182-193	4	0
646	Novel competing evolutionary membrane algorithm based on multiple reference points for multi-objective optimization of ethylene cracking processes. <b>2021</b> , 217, 104389		3
645	A membrane computing framework for social navigation in robotics. <b>2021</b> , 95, 107408		0
644	Monodirectional Evolutional Symport Tissue P Systems With Promoters and Cell Division. <b>2022</b> , 33, 332-342		4
643	Parallel Contextual Array Insertion Deletion P Systems and Tabled Matrix Grammars. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 46-77	0.9	
642	Triangular Array Token Petri Net and P System. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 78-93	0.9	
641	On Numerical 2D P Colonies with the Blackboard and the Gray Wolf Algorithm. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 161-177	0.9	1
640	Reversible Spiking Neural P Systems with Anti-spikes. <b>2021</b> , 513-533		
639	Generalized Forbidding Matrix Grammars and Their Membrane Computing Perspective. <i>Lecture Notes in Computer Science</i> , <b>2021</b> , 31-45	0.9	1
638	Modelling Dynamically Organised Colonies of Bio-entities. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 207-224	0.9	3
637	Outlining an Unconventional, Adaptive, and Particle-Based Reconfigurable Computer Architecture. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 238-253	0.9	1
636	Chemical Computing. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 19-32	0.9	25
635	Higher-Order Chemical Programming Style. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 84-95	0.9	7

634	On Sequential and 1-Deterministic P Systems. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 905-914	0.9	2
633	P Systems with Active Membranes, Without Polarizations and Without Dissolution: A Characterization of P. <i>Lecture Notes in Computer Science</i> , <b>2005</b> , 105-116	0.9	7
632	Computational Power of Symport/Antiport: History, Advances, and Open Problems. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 1-30	0.9	12
631	On the Computational Power of the Mate/Bud/Drip Brane Calculus: Interleaving vs. Maximal Parallelism. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 144-158	0.9	13
630	P Systems and the Modeling of Biochemical Oscillations. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 199-208	0.9	17
629	Boolean Circuits and a DNA Algorithm in Membrane Computing. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 272-291	0.9	1
628	On the Rule Complexity of Universal Tissue P Systems. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 356-362	0.9	13
627	Non-cooperative P Systems with Priorities Characterize PsETOL. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 363-370	0.9	2
626	On Evolutionary Lineages of Membrane Systems. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 67-78	0.9	10
625	Symbol/Membrane Complexity of P Systems with Symport/Antiport Rules. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 96-113	0.9	7
624	On P Systems as a Modelling Tool for Biological Systems. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 114-133	0.9	14
623	Some Notes on (Mem)Brane Computation. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 262-271	0.9	1
622	On the Computational Power of Brane Calculi. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 16-43	0.9	21
621	P Systems, a New Computational Modelling Tool for Systems Biology. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 176-197	0.9	41
620	Deciding Behavioural Properties in Brane Calculi. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 17-31	0.9	5
619	P Systems with Active Membranes Characterize PSPACE. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 33-46	0.9	1
618	Towards a P Systems Pseudomonas Quorum Sensing Model. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 197-214	0.9	9
617	A Case Study in (Mem)Brane Computation: Generating Squares of Natural Numbers. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 233-249	0.9	3

616	Computing with Genetic Gates, Proteins, and Membranes. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 250-265	0.9	3
615	Tau Leaping Stochastic Simulation Method in P Systems. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 298-313	0.9	23
614	Formalizing Spherical Membrane Structures and Membrane Proteins Populations. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 18-41	0.9	1
613	A Protein Substructure Based P System for Description and Analysis of Cell Signalling Networks. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 409-423	0.9	6
612	A Membrane Algorithm for the Min Storage Problem. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 443-462	0.9	21
611	Towards Probabilistic Model Checking on P Systems Using PRISM. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 477-495	0.9	16
610	Computational Completeness of Tissue P Systems with Conditional Uniport. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 521-535	0.9	8
609	Synchrony and Asynchrony in Membrane Systems. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 66-85	0.9	10
608	MP Systems Approaches to Biochemical Dynamics: Biological Rhythms and Oscillations. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 86-99	0.9	8
607	Modeling Signal Transduction Using P Systems. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 100-122	0.9	6
606	Towards a Characterization of P Systems with Minimal Symport/Antiport and Two Membranes. <i>Lecture Notes in Computer Science</i> , <b>2006</b> , 135-153	0.9	9
605	Introduction to Membrane Computing. <b>2006</b> , 1-42		18
604	Membrane Algorithms: Approximate Algorithms for NP-Complete Optimization Problems. <b>2006</b> , 303-314		6
603	Linguistic Membrane Systems and Applications. <b>2006</b> , 347-388		11
602	Available Membrane Computing Software. <b>2006</b> , 411-436		6
601	A Membrane Computing Model of Photosynthesis. <b>2006</b> , 181-202		3
600	Modeling p53 Signaling Pathways by Using Multiset Processing. <b>2006</b> , 203-214		3
599	Membrane-Based Devices Used in Computer Graphics. <b>2006</b> , 253-281		2



598	Unexpected Universality Results for Three Classes of P Systems with Symport/Antiport. <i>Lecture Notes in Computer Science, 2003, 281-290</i>	0.9	1
597	Conformons-P Systems. <i>Lecture Notes in Computer Science, 2003, 291-301</i>	0.9	6
596	Parallel Rewriting P Systems with Deadlock. <i>Lecture Notes in Computer Science, 2003, 302-314</i>	0.9	5
595	Dynamic P Systems. <i>Lecture Notes in Computer Science, 2003, 146-186</i>	0.9	7
594	Membrane Systems and Distributed Computing. <i>Lecture Notes in Computer Science, 2003, 187-202</i>	0.9	11
593	ClientServer P Systems in Modeling Molecular Interaction. <i>Lecture Notes in Computer Science, 2003, 203-218</i>	0.9	6
592	P Automata or Purely Communicating Accepting P Systems. <i>Lecture Notes in Computer Science, 2003, 219-233</i>	0.9	44
591	Self-activating P Systems. <i>Lecture Notes in Computer Science, 2003, 234-246</i>	0.9	4
590	EnergyControlled P Systems. <i>Lecture Notes in Computer Science, 2003, 247-260</i>	0.9	11
589	P Systems with Activated/Prohibited Membrane Channels. <i>Lecture Notes in Computer Science, 2003, 261-269</i>	0.9	26
588	Simulating Counter Automata by P Systems with Symport/Antiport. <i>Lecture Notes in Computer Science, 2003, 288-301</i>	0.9	24
587	A Software Simulation of Transition P Systems in Haskell. <i>Lecture Notes in Computer Science, 2003, 19-32</i>	0.9	9
586	Tissue P Systems with Contextual and Rewriting Rules. <i>Lecture Notes in Computer Science, 2003, 339-351</i>	0.9	16
585	A Survey of Some Variants of P Systems. <i>Lecture Notes in Computer Science, 2003, 360-370</i>	0.9	2
584	Decision P Systems and the P=NP Conjecture. <i>Lecture Notes in Computer Science, 2003, 388-399</i>	0.9	2
583	P Systems without Priorities Are Computationally Universal. <i>Lecture Notes in Computer Science, 2003, 400-409</i>	0.9	13
582	Eilenberg P Systems. <i>Lecture Notes in Computer Science, 2003, 43-57</i>	0.9	5
581	A MzScheme Implementation of Transition P Systems. <i>Lecture Notes in Computer Science, 2003, 58-73</i>	0.9	5

580	Preliminaries about Some Possible Applications of P Systems in Linguistics. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 74-89	0.9	11
579	An Application of Dynamic P Systems: Generating Context-Free Languages. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 90-106	0.9	2
578	P Systems with Boundary Rules. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 107-118	0.9	24
577	Bio-Language for Computing with Membranes. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 176-185	0.9	1
576	Spontaneous Formation of Proto-cells in an Universal Artificial Chemistry on a Planar Graph. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 206-215	0.9	3
575	Solving SAT in Linear Time with a Neural-like Membrane System. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 662-669	0.9	4
574	Carriers and Counters. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 140-151	0.9	1
573	Hybrid Networks of Evolutionary Processors. <i>Lecture Notes in Computer Science</i> , <b>2003</b> , 401-412	0.9	31
572	On the Number of Non-Terminal Symbols in Graph-Controlled, Programmed and Matrix Grammars. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 214-225	0.9	38
571	P Systems with Membrane Creation: Universality and Efficiency. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 276-287	0.9	16
570	Computing with Membranes (P Systems): Universality Results. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 82-101	0.9	6
569	Two Normal Forms for Rewriting P Systems. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 153-164	0.9	9
568	P Systems with Gemination of Mobile Membranes. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 136-153	0.9	10
567	Structures and Bio-language to Simulate Transition P Systems on Digital Computers. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 1-15	0.9	3
566	Tolerance Multisets. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 217-223	0.9	1
565	On P Systems with Active Membranes Solving the Integer Factorization Problem in a Polynomial Time. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 267-285	0.9	6
564	Artificial Life Applications of a Class of P Systems: Abstract Rewriting Systems on Multisets. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 299-346	0.9	33
563	Toward a Formal Macroset Theory. <i>Lecture Notes in Computer Science</i> , <b>2001</b> , 123-133	0.9	35

562	A New Class of Symbolic Abstract Neural Nets: Tissue P Systems. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 290-299	0.9	57
561	Rewriting P Systems with Conditional Communication. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 325-353	0.9	13
560	Implementing Bead-Sort with P Systems. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 115-125	0.9	11
559	Generation of Diophantine Sets by Computing P Systems with External Output. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 176-190	0.9	3
558	Membrane Computing: When Communication Is Enough. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 264-275	0.9	8
557	Computing with Membranes: Variants with an Enhanced Membrane Handling. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 340-349	0.9	4
556	Towards an Electronic Implementation of Membrane Computing: A Formal Description of Non-deterministic Evolution in Transition P Systems. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 350-359	0.9	3
555	Insertion-Deletion P Systems. <i>Lecture Notes in Computer Science</i> , <b>2002</b> , 360-370	0.9	4
554	Encyclopedia of Complexity and Systems Science. <b>2009</b> , 5523-5535		3
553	Membranes as Multi-agent Systems: an Application to Dialogue Modelling. <b>2006</b> , 31-40		1
552	P Systems with Valuations. <b>2001</b> , 154-166		6
551	On P Systems with Active Membranes. <b>2001</b> , 187-201		18
550	Computing with Membranes: Attacking NP-Complete Problems. <b>2001</b> , 94-115		23
549	Computational Complexity. <b>2012</b> , 465-478		3
548	Artificial Chemistry. <b>2009</b> , 577-599		1
547	The Future of Parallel Computation. <b>2009</b> , 471-510		6
546	Membrane Computing as a Modelling Tool: Looking Back and Forward from Sevilla. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 114-129	0.9	2
545	Identifiable Kernel P Systems. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 130-141	0.9	1

544	A Model of Antibiotic Resistance Evolution Dynamics Through P Systems with Active Membranes and Communication Rules. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 33-44	0.9	4
543	Approximating Polygons for Space-Filling Curves Generated with P Systems. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 57-65	0.9	3
542	Chain Code P System for Generation of Approximation Patterns of Sierpiński Curve. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 43-52	0.9	1
541	Chain Code P System Generating a Variant of the Peano Space-Filling Curve. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 73-83	0.9	3
540	An Improved Spectral Clustering Algorithm Based on Cell-Like P System. <i>Lecture Notes in Computer Science</i> , <b>2019</b> , 626-636	0.9	2
539	Towards Programmable Chemistries. <b>2020</b> , 145-157		5
538	Foundations of Reversible Computation. <i>Lecture Notes in Computer Science</i> , <b>2020</b> , 1-40	0.9	4
537	Molecular Diffusion and Compartmentalization in Signal Transduction Pathways: An Application of Membrane Systems to the Study of Bacterial Chemotaxis. <b>2014</b> , 65-96		1
536	Membrane System-Based Models for Specifying Dynamical Population Systems. <b>2014</b> , 97-132		3
535	Membrane Systems and Tools Combining Dynamical Structures with Reaction Kinetics for Applications in Chronobiology. <b>2014</b> , 133-173		5
534	Chemical Production and Molecular Computing in Addressable Reaction Compartments. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 173-182	0.9	2
533	Fixed Points and Attractors of Reaction Systems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 194-203	0.9	13
532	Mitochondrial fusion through membrane automata. <b>2015</b> , 820, 163-72		5
531	Computational Models Based on Splicing. <b>2015</b> , 237-257		2
530	Small P Systems Defining Non-semilinear Sets. <b>2015</b> , 183-217		2
529	Cycles and Global Attractors of Reaction Systems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 114-125	0.9	8
528	Matter and Anti-Matter in Membrane Systems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 65-76	0.9	10
527	50 Shades of Rule Composition. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 117-135	0.9	8

526	Extended Simulation and Verification Platform for Kernel P Systems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 158-178	0.9	9
525	The Abilities of P Colony Based Models in Robot Control. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 179-193	0.9	2
524	Probabilistic Guarded P Systems, A New Formal Modelling Framework. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 194-214	0.9	4
523	Polymorphic P Systems with Non-cooperative Rules and No Ingredients. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 258-273	0.9	3
522	Fault Diagnosis Models for Electric Locomotive Systems Based on Fuzzy Reasoning Spiking Neural P Systems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 385-395	0.9	1
521	P Systems with Anti-Matter. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 66-85	0.9	6
520	P Systems with Toxic Objects. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 99-125	0.9	7
519	RedGreen P Automata. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 139-157	0.9	7
518	Distributed Simulation of NEPs Based On-Demand Cloud Elastic Computation. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 40-54	0.9	4
517	Going Beyond Turing with P Automata: Partial Adult Halting and Regular Observer ( $\omega$ )-Languages. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 169-180	0.9	3
516	(ell): An Imperative DSL to Stochastically Simulate Biological Systems. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 354-374	0.9	3
515	A Membrane Computing Model for Generation of Picture Arrays. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 155-165	0.9	4
514	An Integrated Model Checking Toolset for Kernel P Systems. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 153-170	0.9	10
513	Simulating FRSN P Systems with Real Numbers in P-Lingua on sequential and CUDA platforms. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 262-276	0.9	3
512	Regulating Rule Application with Membrane Boundaries in P Systems. <i>Lecture Notes in Computer Science</i> , <b>2015</b> , 304-320	0.9	2
511	An Improved K-medoids Clustering Algorithm Based on a Grid Cell Graph Realized by the P System. <i>Lecture Notes in Computer Science</i> , <b>2016</b> , 365-374	0.9	3
510	An Integrated In Silico Simulation and Biomatter Compilation Approach to Cellular Computation. <b>2017</b> , 655-676	0.9	1
509	Kernel P Systems Modelling, Testing and Verification - Sorting Case Study. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 233-250	0.9	3

508	Agent-Based Simulation of Kernel P Systems with Division Rules Using FLAME. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 286-306	0.9	1
507	Rewriting P Systems with Flat-Splicing Rules. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 340-351	0.9	1
506	Simulating R Systems by P Systems. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 51-66	0.9	5
505	Morphogenetic and Homeostatic Self-assembled Systems. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 144-159	0.9	6
504	Parallel Contextual Array Insertion Deletion P System. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 170-183	0.9	4
503	Fusion Grammars: A Novel Approach to the Generation of Graph Languages. <i>Lecture Notes in Computer Science</i> , <b>2017</b> , 90-105	0.9	6
502	An Overview of 2D Picture Array Generating Models Based on Membrane Computing. <b>2018</b> , 333-356		5
501	Modelling and Validating an Engineering Application in Kernel P Systems. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 183-195	0.9	3
500	Multiset Patterns and Their Application to Dynamic Causalities in Membrane Systems. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 54-73	0.9	2
499	Counting Membrane Systems. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 74-87	0.9	1
498	Optimization Spiking Neural P System for Solving TSP. <b>2018</b> , 668-676		3
497	Control Mechanisms for Array Grammars on Cayley Grids. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 1-33	0.9	1
496	P Systems with Activation and Blocking of Rules. <i>Lecture Notes in Computer Science</i> , <b>2018</b> , 1-15	0.9	3
495	Implementing in Prolog an Effective Cellular Solution to the Knapsack Problem. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 140-152	0.9	6
494	On the Dynamics of PB Systems: A Petri Net View. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 153-167	0.9	11
493	P Systems with Cutting/Recombination Rules Assigned to Membranes. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 191-202	0.9	2
492	EP Automata with Communication Rules. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 203-217	0.9	12
491	The Number of Membranes Matters. <i>Lecture Notes in Computer Science</i> , <b>2004</b> , 218-231	0.9	14

490	A Linear-Time Solution to the Knapsack Problem Using P Systems with Active Membranes. <i>Lecture Notes in Computer Science, 2004, 250-268</i>	0.9	31
489	A Binary Data Structure for Membrane Processors: Connectivity Arrays. <i>Lecture Notes in Computer Science, 2004, 19-30</i>	0.9	3
488	A Reconfigurable Hardware Membrane System. <i>Lecture Notes in Computer Science, 2004, 269-285</i>	0.9	14
487	P Systems and Petri Nets. <i>Lecture Notes in Computer Science, 2004, 286-303</i>	0.9	16
486	Universality of Minimal Symport/Antiport: Five Membranes Suffice. <i>Lecture Notes in Computer Science, 2004, 43-54</i>	0.9	12
485	The P Versus NP Problem Through Cellular Computing with Membranes. <i>Lecture Notes in Computer Science, 2003, 338-352</i>	0.9	9
484	Membrane Calculus: A Formal Method for Grid Transactions. <i>Lecture Notes in Computer Science, 2004, 73-80</i>	0.9	1
483	P Systems Working in the Sequential Mode on Arrays and Strings. <i>Lecture Notes in Computer Science, 2004, 188-199</i>	0.9	5
482	Sequential P Systems with Unit Rules and Energy Assigned to Membranes. <i>Lecture Notes in Computer Science, 2005, 200-210</i>	0.9	11
481	Attacking the Common Algorithmic Problem by Recognizer P Systems. <i>Lecture Notes in Computer Science, 2005, 304-315</i>	0.9	13
480	Unstable P Systems: Applications to Linguistics. <i>Lecture Notes in Computer Science, 2005, 190-209</i>	0.9	6
479	Exploring Computation Trees Associated with P Systems. <i>Lecture Notes in Computer Science, 2005, 278-286</i>	0.9	6
478	Approximating Non-discrete P Systems. <i>Lecture Notes in Computer Science, 2005, 287-295</i>	0.9	1
477	Conservative Computations in EnergyBased P Systems. <i>Lecture Notes in Computer Science, 2005, 344-358</i>	0.9	2
476	Trading Polarization for Bi-stable Catalysts in P Systems with Active Membranes. <i>Lecture Notes in Computer Science, 2005, 373-388</i>	0.9	6
475	Modelling Dynamic Organization of Biology-Inspired Multi-agent Systems with Communicating X-Machines and Population P Systems. <i>Lecture Notes in Computer Science, 2005, 389-403</i>	0.9	11
474	Replicative Distribution Rules in P Systems with Active Membranes. <i>Lecture Notes in Computer Science, 2005, 68-83</i>	0.9	3
473	Membrane Computing. <i>Lecture Notes in Computer Science, 2003, 284-295</i>	0.9	12

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471	A Core Calculus for a Comparative Analysis of Bio-inspired Calculi. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 411-425	0.9	11
470	Code Regulation in Open Ended Evolution. <b>2007</b> , 271-280		2
469	On the Computational Power of Flip-Flop Proteins on Membranes. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 695-704	0.9	3
468	Solving Subset Sum in Linear Time by Using Tissue P Systems with Cell Division. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 170-179	0.9	17
467	Bond Computing Systems: A Biologically Inspired and High-Level Dynamics Model for Pervasive Computing. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 226-241	0.9	3
466	Partial Halting in P Systems Using Membrane Rules with Permitting Contexts. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 110-121	0.9	2
465	Uniform Solution of QSAT Using Polarizationless Active Membranes. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 122-133	0.9	27
464	Asynchronous Spiking Neural P System with Promoters. <b>2007</b> , 693-702		4
463	Psim: A Computational Platform for Metabolic P Systems. <b>2007</b> , 1-20		5
462	Causality in Membrane Systems. <b>2007</b> , 160-171		12
461	Simulating the Bitonic Sort Using P Systems. <b>2007</b> , 172-192		4
460	On the Number of Agents in P Colonies. <b>2007</b> , 193-208		11
459	Events, Causality, and Concurrency in Membrane Systems. <b>2007</b> , 209-227		5
458	OPERASCC: An Instance of a Formal Framework for MAS Modeling Based on Population P Systems. <b>2007</b> , 438-452		4
457	(UREM) P Systems with a Quantum-Like Behavior: Background, Definition, and Computational Power. <b>2007</b> , 32-53		2
456	On the Reachability Problem in P Systems with Mobile Membranes. <b>2007</b> , 113-123		3
455	A Hybrid Approach to Modeling Biological Systems. <b>2007</b> , 138-159		12



454	On Stateless Multihead Automata: Hierarchies and the Emptiness Problem. <b>2008</b> , 94-105		6
453	Implementation of Massive Parallel Networks of Evolutionary Processors (MPNEP): 3-Colorability Problem. <b>2008</b> , 399-408		4
452	OPERAS: A Framework for the Formal Modelling of Multi-Agent Systems and Its Application to Swarm-Based Systems. <i>Lecture Notes in Computer Science</i> , <b>2007</b> , 158-174	0.9	3
451	A Multi-volume Approach to Stochastic Modeling with Membrane Systems. <b>2009</b> , 519-542		3
450	Log-gain Principles for Metabolic P Systems. <b>2009</b> , 585-605		16
449	An Artificial Chemistry for Networking. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 45-57	0.9	1
448	Robustness to Code and Data Deletion in Autocatalytic Quines. <i>Lecture Notes in Computer Science</i> , <b>2008</b> , 20-40	0.9	4
447	Membrane Computing. <b>2012</b> , 1355-1377		2
446	Membrane Systems Using Noncooperative Rules with Unconditional Halting. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 129-136	0.9	5
445	Modeling Ecosystems Using P Systems: The Bearded Vulture, a Case Study. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 137-156	0.9	25
444	MetaPlab: A Computational Framework for Metabolic P Systems. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 157-168	0.9	14
443	A P-Lingua Programming Environment for Membrane Computing. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 187-203	0.9	25
442	Event-Driven Metamorphoses of P Systems. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 231-245	0.9	2
441	First Steps Towards a Wet Implementation for $\mathcal{E}DPP$ . <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 355-373	0.9	1
440	Defining and Executing P Systems with Structured Data in K. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 374-393	0.9	11
439	A Multiscale Modeling Framework Based on P Systems. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 63-77	0.9	7
438	On the Qualitative Analysis of Conformon P Systems. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 78-94	0.9	1
437	Solving the Independent Set Problem by Using Tissue-Like P Systems with Cell Division. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 213-222	0.9	7

436	Hierarchies and Characterizations of Stateless Multicounter Machines. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 408-417	0.9	7
435	On Stateless Multicounter Machines. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 178-187	0.9	6
434	Simple, Enhanced and Mutual Mobile Membranes. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 26-44	0.9	11
433	Accepting Networks of Non-inserting Evolutionary Processors. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 187-199	0.9	3
432	Using Membrane Computing for Obtaining Homology Groups of Binary 2D Digital Images. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 383-396	0.9	4
431	Segmentation in 2D and 3D Image Using Tissue-Like P System. <i>Lecture Notes in Computer Science</i> , <b>2009</b> , 169-176	0.9	14
430	P Automata: Concepts, Results, and New Aspects. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 1-15	0.9	4
429	A Computational Complexity Theory in Membrane Computing. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 125-148	0.9	16
428	A Novel Variant of P Systems for the Modelling and Simulation of Biochemical Systems. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 210-226	0.9	2
427	Implementing P Systems Parallelism by Means of GPUs. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 227-241	0.9	2
426	Regulation and Covering Problems in MP Systems. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 242-251	0.9	3
425	An Overview of P-Lingua 2.0. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 264-288	0.9	37
424	Characterizing Tractability by Tissue-Like P Systems. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 289-300	0.9	11
423	Tuning P Systems for Solving the Broadcasting Problem. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 354-370	0.9	3
422	An Improved Membrane Algorithm for Solving Time-Frequency Atom Decomposition. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 371-384	0.9	12
421	An Efficient Simulation of Polynomial-Space Turing Machines by P Systems with Active Membranes. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 461-478	0.9	7
420	Formal Verification and Testing Based on P Systems. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 54-65	0.9	1
419	From P to MP Systems. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 74-94	0.9	6

418	Evaluation of a Catalytic Search Algorithm. <b>2010</b> , 75-87		6
417	Computational Complexity Aspects in Membrane Computing. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 317-320	0.9	1
416	On a Powerful Class of Non-universal P Systems with Active Membranes. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 364-375	0.9	2
415	Model Checking the Ant Colony Optimisation. <b>2010</b> , 221-232		4
414	Proximity-Based Federation of Smart Objects: Liberating Ubiquitous Computing from Stereotyped Application Scenarios. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 14-30	0.9	5
413	On the Expressiveness of the $\lambda$ -Calculus and the Mobile Ambients. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 44-59	0.9	3
412	P Systems and Unique-Sum Sets. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 208-225	0.9	1
411	An Integrated Approach to P Systems Formal Verification. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 226-239		6
410	Matrix Representation of Spiking Neural P Systems. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 377-391	0.9	20
409	An Overview of Membrane Computing. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 1-14	0.9	1
408	On Normal Forms for Networks of Evolutionary Processors. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 89-100	0.9	2
407	BFS Solution for Disjoint Paths in P Systems. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 164-176	0.9	9
406	Hierarchy Results on Stateless Multicounter 5? -n? Watson-Crick Automata. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 465-472	0.9	2
405	A $(\Sigma_2^P \cup \Pi_2^P)$ Lower Bound Using Mobile Membranes. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 275-288	0.9	4
404	P Systems in Stereo Matching. <i>Lecture Notes in Computer Science</i> , <b>2011</b> , 285-292	0.9	5
403	Using Genetic Algorithms and Model Checking for P Systems Automatic Design. <b>2011</b> , 285-302		4
402	P Systems with Active Membranes Operating under Minimal Parallelism. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 165-181	0.9	4
401	Evolutionary Design of a Simple Membrane System. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 203-214	0.9	7

400	Parallel and Distributed Algorithms in P Systems. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 35-50	0.9	11
399	Membrane Computing Optimization Method Based on Catalytic Factor. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 129-137	0.9	3
398	Towards Hypercomputations (in Membrane Computing). <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 207-220	0.9	3
397	P Systems Controlled by General Topologies. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 70-81	0.9	5
396	Population Dynamics P Systems on CUDA. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 247-266	0.9	10
395	An Optimization Algorithm Based on Evolution Rules on Cellular System. <b>2012</b> , 314-320		2
394	Implementing Enzymatic Numerical P Systems for AI Applications by Means of Graphic Processing Units. <b>2013</b> , 137-159		6
393	A P System Model for Contextual Array Languages. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 154-165	0.9	3
392	2D P Colonies. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 161-172	0.9	2
391	Fast Distributed DFS Solutions for Edge-Disjoint Paths in Digraphs. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 173-194	0.9	2
390	A New Approach for Solving SAT by P Systems with Active Membranes. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 195-207	0.9	7
389	The Efficiency of Tissue P Systems with Cell Separation Relies on the Environment. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 243-256	0.9	8
388	DCBA: Simulating Population Dynamics P Systems with Proportional Object Distribution. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 257-276	0.9	15
387	Membranes with Boundaries. <i>Lecture Notes in Computer Science</i> , <b>2013</b> , 277-294	0.9	5
386	A Hybrid Membrane Computing and Honey Bee Mating Algorithm as an Intelligent Algorithm for Channel Assignment Problem. <b>2013</b> , 1021-1028		3
385	Kernel P Systems: Applications and Implementations. <b>2013</b> , 1081-1089		5
384	Some Open Problems about Catalytic, Numerical, and Spiking Neural P Systems. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 33-39	0.9	1
383	Accelerated Simulation of P Systems on the GPU: A Survey. <b>2014</b> , 308-312		6

382	Time-Free Tissue P Systems for Solving the Hamilton Path Problem. <b>2014</b> , 562-565		1
381	Hybridization of P Systems and Particle Swarm Optimization for Function Optimization. <b>2014</b> , 395-401		4
380	P System Based Particle Swarm Optimization Algorithm. <b>2014</b> , 553-563		4
379	K-Medoids-Based Consensus Clustering Based on Cell-Like P Systems with Promoters and Inhibitors. <b>2016</b> , 95-108		1
378	Fault Classification of Power Transmission Lines Using Fuzzy Reasoning Spiking Neural P Systems. <b>2016</b> , 109-117		1
377	An Immune Algorithm Based on P System for Classification. <b>2016</b> , 133-141		1
376	Fault Diagnosis of Power Systems Based on Triangular Fuzzy Spiking Neural P Systems. <b>2016</b> , 385-398		1
375	Derivation Languages of Splicing P Systems. <b>2017</b> , 487-501		0
374	A novel solution for GCP based on an OLMS membrane algorithm with dynamic operators. <i>Journal of Membrane Computing</i> , <b>2020</b> , 2, 1-13	4	9
373	A Complete Arithmetic Calculator Constructed from Spiking Neural P Systems and its Application to Information Fusion. <i>International Journal of Neural Systems</i> , <b>2021</b> , 31, 2050055	6.2	33
372	Evolution-Communication Spiking Neural P Systems. <i>International Journal of Neural Systems</i> , <b>2021</b> , 31, 2050064	6.2	3
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370	Path Planning of Robot in Coal Mine Using Genetic Membrane Algorithms. <b>2019</b> ,		1
369	An Overview of Hardware Implementation of Membrane Computing Models. <b>2020</b> , 53, 1-38		13
368	Spiking Neural P Systems with Neuron Division and Dissolution. <i>PLoS ONE</i> , <b>2016</b> , 11, e0162882	3.7	24
367	Automated Metabolic P System Placement in FPGA. <b>2016</b> , 10, 5-12		3
366	A Grid-Density Based Algorithm by Weighted Spiking Neural P Systems with Anti-Spikes and Astrocytes in Spatial Cluster Analysis. <b>2020</b> , 8, 1132		2
365	Membrane System-Based Improved Neural Networks for Time-Series Anomaly Detection. <b>2020</b> , 8, 1168		1

364	Snapse: A Visual Tool for Spiking Neural P Systems. <b>2021</b> , 9, 72	4
363	A Survey of Membrane Computing as a New Branch of Natural Computing. <b>2010</b> , 33, 208-214	38
362	Evaluating ligand-receptor networks of TGF-beta with membrane computing. <b>2011</b> , 14, 1100-8	3
361	Organizing the Aggregate. 436-501	37
360	Simulating Spiking Neural P Systems Without Delays Using GPUs. <b>2014</b> , 109-121	2
359	Towards Automated Verification of P Systems Using Spin. <b>2014</b> , 159-170	1
358	Asynchronous P Systems. <b>2011</b> , 2, 1-18	7
357	Simulating Spiking Neural P Systems Without Delays Using GPUs. <b>2011</b> , 2, 19-31	5
356	Towards Automated Verification of P Systems Using Spin. <b>2011</b> , 2, 1-12	4
355	Linear Time Solution to Prime Factorization by Tissue P Systems with Cell Division. <b>2011</b> , 2, 49-60	1
354	How to Obtain Computational Completeness in P Systems with One Catalyst. 128, 47-61	11
353	An Analysis on the Influence of Network Topologies on Local and Global Dynamics of Metapopulation Systems. <b>2010</b> , 33, 1-17	4
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229	Artificial Chemistries on GPU. <b>2013</b> , 389-419		
228	Towards a Bio-Inspired Theoretical Linguistics to Model Man-Machine Communication. <b>2013</b> , 1, 14-28		
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225	Modelling and Analysis of E. coli Respiratory Chain. <b>2014</b> , 247-266		
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