

# Luca Mariot

## List of Publications by Year in descending order

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43  
papers

483  
citations

933447

10  
h-index

888059

17  
g-index

46  
all docs

46  
docs citations

46  
times ranked

120  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cellular automata based S-boxes. <i>Cryptography and Communications</i> , 2019, 11, 41-62.	1.4	43
2	Salp Swarm Optimization: A critical review. <i>Expert Systems With Applications</i> , 2022, 189, 116029.	7.6	38
3	m-Asynchronous cellular automata: from fairness to quasi-fairness. <i>Natural Computing</i> , 2013, 12, 561-572.	3.0	33
4	Balanced crossover operators in Genetic Algorithms. <i>Swarm and Evolutionary Computation</i> , 2020, 54, 100646.	8.1	30
5	Design of S-boxes Defined with Cellular Automata Rules. , 2017, , .		28
6	Heuristic Search by Particle Swarm Optimization of Boolean Functions for Cryptographic Applications. , 2015, , .		27
7	A Genetic Algorithm for Evolving Plateaued Cryptographic Boolean Functions. <i>Lecture Notes in Computer Science</i> , 2015, , 33-45.	1.3	24
8	Asynchronous cellular automata and dynamical properties. <i>Natural Computing</i> , 2012, 11, 269-276.	3.0	21
9	Evolving S-boxes based on cellular automata with genetic programming. , 2017, , .		18
10	On the dynamical behaviour of linear higher-order cellular automata and its decidability. <i>Information Sciences</i> , 2019, 486, 73-87.	6.9	18
11	Mutually orthogonal latin squares based on cellular automata. <i>Designs, Codes, and Cryptography</i> , 2020, 88, 391-411.	1.6	18
12	Evolutionary algorithms for the design of orthogonal latin squares based on cellular automata. , 2017, , .		17
13	Hyper-bent Boolean Functions and Evolutionary Algorithms. <i>Lecture Notes in Computer Science</i> , 2019, , 262-277.	1.3	11
14	Evolutionary Search of Binary Orthogonal Arrays. <i>Lecture Notes in Computer Science</i> , 2018, , 121-133.	1.3	11
15	Computing the periods of preimages in surjective cellular automata. <i>Natural Computing</i> , 2017, 16, 367-381.	3.0	9
16	The influence of population size in geometric semantic GP. <i>Swarm and Evolutionary Computation</i> , 2017, 32, 110-120.	8.1	9
17	Inversion of Mutually Orthogonal Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2018, , 364-376.	1.3	9
18	Sharing Secrets by Computing Preimages of Bipermutive Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2014, , 417-426.	1.3	8

#	ARTICLE	IF	CITATIONS
19	GSGP-C++ 2.0: A geometric semantic genetic programming framework. <i>SoftwareX</i> , 2019, 10, 100313.	2.6	8
20	Enumerating Orthogonal Latin Squares Generated by Bipermutive Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2017, , 151-164.	1.3	8
21	A cryptographic and coding-theoretic perspective on the global rules of cellular automata. <i>Natural Computing</i> , 2018, 17, 487-498.	3.0	7
22	Evolving Bent Quaternary Functions. , 2018, , .		7
23	The firing squad synchronization problem on CA with multiple updating cycles. <i>Theoretical Computer Science</i> , 2014, 559, 108-117.	0.9	6
24	Hidden Costs of Modelling Post-fire Plant Community Assembly Using Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2018, , 68-79.	1.3	6
25	Pruning Techniques for Mixed Ensembles of Genetic Programming Models. <i>Lecture Notes in Computer Science</i> , 2018, , 52-67.	1.3	5
26	1-Resiliency of Bipermutive Cellular Automata Rules. <i>Lecture Notes in Computer Science</i> , 2013, , 110-123.	1.3	5
27	Heuristic search of (semi-)bent functions based on cellular automata. <i>Natural Computing</i> , 2022, 21, 377-391.	3.0	5
28	Cellular Automata Pseudo-Random Number Generators and Their Resistance to Asynchrony. <i>Lecture Notes in Computer Science</i> , 2018, , 428-437.	1.3	4
29	Does constraining the search space of GA always help?. , 2019, , .		4
30	The Fifth International Studentsâ€™ Olympiad in cryptographyâ€™NSUCRYPTO: Problems and their solutions. <i>Cryptologia</i> , 2020, 44, 223-256.	0.5	4
31	An Evolutionary View on Reversible Shift-Invariant Transformations. <i>Lecture Notes in Computer Science</i> , 2020, , 118-134.	1.3	4
32	Hip to Be (Latin) Square: Maximal Period Sequences from Orthogonal Cellular Automata. , 2021, , .		4
33	Tip the Balance: Improving Exploration of Balanced Crossover Operators by Adaptive Bias. , 2021, , .		4
34	The Firing Squad Synchronization Problem on Higher-Dimensional CA with Multiple Updating Cycles. , 2016, , .		3
35	Evolutionary algorithms for designing reversible cellular automata. <i>Genetic Programming and Evolvable Machines</i> , 2021, 22, 429-461.	2.2	3
36	On the Periods of Spatially Periodic Preimages in Linear Bipermutive Cellular Automata. <i>Lecture Notes in Computer Science</i> , 2015, , 181-195.	1.3	3

#	ARTICLE	IF	CITATIONS
37	The Design of (Almost) Disjunct Matrices by Evolutionary Algorithms. Lecture Notes in Computer Science, 2018, , 152-163.	1.3	3
38	Latin Hypercubes and Cellular Automata. Lecture Notes in Computer Science, 2020, , 139-151.	1.3	2
39	On the Difficulty of Evolving Permutation Codes. Lecture Notes in Computer Science, 2022, , 141-156.	1.3	2
40	Search space reduction of asynchrony immune cellular automata. Natural Computing, 2020, 19, 287-293.	3.0	1
41	Decidability of Sensitivity and Equicontinuity for Linear Higher-Order Cellular Automata. Lecture Notes in Computer Science, 2019, , 95-107.	1.3	1
42	Resilient Vectorial Functions and Cyclic Codes Arising from Cellular Automata. Lecture Notes in Computer Science, 2016, , 34-44.	1.3	1
43	The Effect of Multi-Generational Selection in Geometric Semantic Genetic Programming. Applied Sciences (Switzerland), 2022, 12, 4836.	2.5	0