

# Lazaros Moysis

## List of Publications by Year in descending order

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53  
papers

484  
citations

686830

13  
h-index

752256

20  
g-index

54  
all docs

54  
docs citations

54  
times ranked

327  
citing authors

#	ARTICLE	IF	CITATIONS
1	A chaotic path planning generator based on logistic map and modulo tactics. <i>Robotics and Autonomous Systems</i> , 2020, 124, 103377.	3.0	49
2	Modification of the Logistic Map Using Fuzzy Numbers with Application to Pseudorandom Number Generation and Image Encryption. <i>Entropy</i> , 2020, 22, 474.	1.1	38
3	A Two-Parameter Modified Logistic Map and Its Application to Random Bit Generation. <i>Symmetry</i> , 2020, 12, 829.	1.1	31
4	Analysis, Synchronization, and Robotic Application of a Modified Hyperjerk Chaotic System. <i>Complexity</i> , 2020, 2020, 1-15.	0.9	25
5	New Discrete Time 2D Chaotic Maps. <i>International Journal of System Dynamics Applications</i> , 2017, 6, 77-104.	0.3	23
6	Construction of one-way hash functions with increased key space using adaptive chaotic maps. <i>Chaos, Solitons and Fractals</i> , 2020, 141, 110344.	2.5	21
7	Extreme multi-stability analysis of a novel 5D chaotic system with hidden attractors, line equilibrium, permutation entropy and its secure communication scheme. <i>European Physical Journal: Special Topics</i> , 2020, 229, 1175-1188.	1.2	21
8	Passivity based sliding mode control and synchronization of a perturbed uncertain unified chaotic system. <i>Mathematics and Computers in Simulation</i> , 2021, 181, 150-169.	2.4	21
9	An Inverse Pheromone Approach in a Chaotic Mobile Robot's Path Planning Based on a Modified Logistic Map. <i>Technologies</i> , 2019, 7, 84.	3.0	17
10	Observer design for rectangular descriptor systems with incremental quadratic constraints and nonlinear outputs—Application to secure communications. <i>International Journal of Robust and Nonlinear Control</i> , 2020, 30, 8139-8158.	2.1	17
11	Closed form solution for the equations of motion for constrained linear mechanical systems and generalizations: An algebraic approach. <i>Journal of the Franklin Institute</i> , 2017, 354, 1421-1445.	1.9	16
12	Fast synchronization of symmetric Hénon maps using adaptive symmetry control. <i>Chaos, Solitons and Fractals</i> , 2022, 155, 111732.	2.5	16
13	A chaotic path planning generator enhanced by a memory technique. <i>Robotics and Autonomous Systems</i> , 2021, 143, 103826.	3.0	15
14	Introduction to Control Systems Design Using Matlab. <i>International Journal of System Dynamics Applications</i> , 2017, 6, 130-170.	0.3	14
15	Improving chaos-based pseudo-random generators in finite-precision arithmetic. <i>Nonlinear Dynamics</i> , 2021, 104, 727-737.	2.7	14
16	Adaptive symmetry control in secure communication systems. <i>Chaos, Solitons and Fractals</i> , 2022, 159, 112181.	2.5	14
17	Varying-parameter finite-time zeroing neural network for solving linear algebraic systems. <i>Electronics Letters</i> , 2020, 56, 810-813.	0.5	13
18	Chaotic Path Planning for 3D Area Coverage Using a Pseudo-Random Bit Generator from a 1D Chaotic Map. <i>Mathematics</i> , 2021, 9, 1821.	1.1	12

#	ARTICLE	IF	CITATIONS
19	Analysis of a Chaotic System with Line Equilibrium and Its Application to Secure Communications Using a Descriptor Observer. <i>Technologies</i> , 2019, 7, 76.	3.0	11
20	Passivity based control and synchronization of perturbed uncertain chaotic systems and their microcontroller implementation. <i>International Journal of Dynamics and Control</i> , 2020, 8, 973-990.	1.5	8
21	A Chaotic Path Planning Method for 3D Area Coverage Using Modified Logistic Map and a Modulo Tactic. , 2020, , .		7
22	A Novel Chaotic System with a Line Equilibrium: Analysis and Its Applications to Secure Communication and Random Bit Generation. <i>Telecom</i> , 2020, 1, 283-296.	1.6	6
23	Existence of Reachable and Observable Triples of Linear Discrete-Time Descriptor Systems. <i>Circuits, Systems, and Signal Processing</i> , 2019, 38, 1086-1098.	1.2	5
24	Synchronization of a Chaotic System with Line Equilibrium using a Descriptor Observer for Secure Communication. , 2019, , .		5
25	Algebraic Methods for the Construction of Algebraic-Difference Equations With Desired Behavior. <i>Electronic Journal of Linear Algebra</i> , 0, 34, 1-17.	0.6	5
26	A New Fractional-Order Map with Infinite Number of Equilibria and Its Encryption Application. <i>Complexity</i> , 2022, 2022, 1-18.	0.9	5
27	Analysis, Synchronization and Microcontroller Implementation of a Generalized Hyperjerk System, with Application to Secure Communications Using a Descriptor Observer. , 2019, , .		4
28	Observability of linear discrete-time systems of algebraic and difference equations. <i>International Journal of Control</i> , 2019, 92, 339-355.	1.2	4
29	Circuit Implementation of a Modified Chaotic System with Hyperbolic Sine Nonlinearities Using Bi-Color LED. <i>Technologies</i> , 2021, 9, 15.	3.0	4
30	Random vibration of linear systems with singular matrices based on Kronecker canonical forms of matrix pencils. <i>Mechanical Systems and Signal Processing</i> , 2021, 161, 107896.	4.4	4
31	Chaotic Path Planning for Grid Coverage Using a Modified Logistic-May Map. <i>Journal of Automation, Mobile Robotics and Intelligent Systems</i> , 0, , 3-9.	0.4	4
32	Analysis of a Dynamical Model for HIV Infection with One or Two Inputs. <i>International Journal of System Dynamics Applications</i> , 2016, 5, 83-100.	0.3	3
33	Dimensionality Reduction Reconstitution for Extreme Multistability in Memristor-Based Colpitts System. <i>Complexity</i> , 2019, 2019, 1-12.	0.9	3
34	Reachability of discrete time ARMA representations. <i>IMA Journal of Mathematical Control and Information</i> , 2021, 38, 15-38.	1.1	3
35	Observers for rectangular descriptor systems with output nonlinearities: application to secure communications and microcontroller implementation. <i>International Journal of Dynamics and Control</i> , 2021, 9, 530-540.	1.5	3
36	Area Surveillance Using a UAV with Mounted Chaotic Camera. , 2021, , .		3

#	ARTICLE	IF	CITATIONS
37	Antimonotonicity, Crisis, and Route to Chaos in a Tumor Growth Model. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2021, , 583-596.	0.5	3
38	Chaotic Motion Control of a Mobile Robot Using a Memory Technique. , 2020, , .		3
39	Predictive control and synchronization of uncertain perturbed chaotic permanent-magnet synchronous generator and its microcontroller implementation. <i>European Physical Journal: Special Topics</i> , 2022, 231, 443-451.	1.2	3
40	Construction of Algebraic and Difference Equations with a Prescribed Solution Space. <i>International Journal of Applied Mathematics and Computer Science</i> , 2017, 27, 19-32.	1.5	2
41	A Novel Chaotic System with Application to Secure Communications. , 2020, , .		2
42	The Study of Square Periodic Perturbations as an Immunotherapy Process on a Tumor Growth Chaotic Model. <i>Dynamics</i> , 2022, 2, 161-174.	0.5	2
43	Reachability and controllability of discrete time descriptor systems using the Weierstrass decomposition. , 2018, , .		1
44	Motion Control of a Mobile Robot Based on a Chaotic Iterative Map. , 2020, , .		1
45	Discrete Time Chaotic Maps With Application to Random Bit Generation. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2021, , 542-582.	0.5	1
46	Analysis and Control of a Dynamical Model for HIV Infection With One or Two Inputs. <i>Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series</i> , 2018, , 357-381.	0.5	1
47	Modeling of discrete time auto-regressive systems with given forward and backward behavior. , 2014, , .		0
48	On the modeling of discrete time Auto-Regressive representations. , 2014, , .		0
49	Reachability of discrete time causal ARMA representations. , 2016, , .		0
50	Predictive Control of a Fractional Order Delayed Chaotic System with Circuit Implementation. , 2019, , .		0
51	A Chaotic Circuit with Bi-Color LED as a Nonlinear Element. , 2020, , .		0
52	Improving Pseudo-random Number Generators in a Floating-point Implementation. , 2020, , .		0
53	Nonlinear Phenomena and Chaos in a Tumor Growth Model. , 2022, , 63-71.		0