Lazaros Moysis

List of Publications by Year
in descending order

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	Fast synchronization of symmetric HÃ©non maps using adaptive symmetry control. Chaos, Solitons and Fractals, 2022, 155, 111732.	2.5	16
2	Predictive control and synchronization of uncertain perturbed chaotic permanent-magnet synchronous generator and its microcontroller implementation. European Physical Journal: Special Topics, 2022, 231, 443-451.	1.2	3
3	A New Fractional-Order Map with Infinite Number of Equilibria and Its Encryption Application. Complexity, 2022, 2022, 1-18.	0.9	5
4	Nonlinear Phenomena and Chaos in a Tumor Growth Model. , 2022, , 63-71.		0
5	Adaptive symmetry control in secure communication systems. Chaos, Solitons and Fractals, 2022, 159, 112181.	2.5	14
6	Ïhe Study of Square Periodic Perturbations as an Immunotherapy Process on a Tumor Growth Chaotic Model. Dynamics, 2022, 2, 161-174.	0.5	2
7	Reachability of discrete time ARMA representations. IMA Journal of Mathematical Control and Information, 2021, 38, 15-38.	1.1	3
8	Observers for rectangular descriptor systems with output nonlinearities: application to secure communications and microcontroller implementation. International Journal of Dynamics and Control, 2021, 9, 530-540.	1.5	3
9	Passivity based sliding mode control and synchronization of a perturbed uncertain unified chaotic system. Mathematics and Computers in Simulation, 2021, 181, 150-169.	2.4	21
10	Discrete Time Chaotic Maps With Application to Random Bit Generation. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2021, , 542-582.	0.5	1
11	Improving chaos-based pseudo-random generators in finite-precision arithmetic. Nonlinear Dynamics, 2021, 104, 727-737.	2.7	14
12	Circuit Implementation of a Modified Chaotic System with Hyperbolic Sine Nonlinearities Using Bi-Color LED. Technologies, 2021, 9, 15.	3.0	4
13	Area Surveillance Using a UAV with Mounted Chaotic Camera. , 2021, , .		3
14	Chaotic Path Planning for 3D Area Coverage Using a Pseudo-Random Bit Generator from a 1D Chaotic Map. Mathematics, 2021, 9, 1821.	1.1	12
15	A chaotic path planning generator enhanced by a memory technique. Robotics and Autonomous Systems, 2021, 143, 103826.	3.0	15
16	Random vibration of linear systems with singular matrices based on Kronecker canonical forms of matrix pencils. Mechanical Systems and Signal Processing, 2021, 161, 107896.	4.4	4
17	Antimonotonicity, Crisis, and Route to Chaos in a Tumor Growth Model. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2021, , 583-596.	0.5	3
18	A chaotic path planning generator based on logistic map and modulo tactics. Robotics and Autonomous Systems, 2020, 124, 103377.	3.0	49

#	Article	IF	Citations
19	Construction of one-way hash functions with increased key space using adaptive chaotic maps. Chaos, Solitons and Fractals, 2020, 141, 110344.	2.5	21
20	A Chaotic Path Planning Method for 3D Area Coverage Using Modified Logistic Map and a Modulo Tactic. , 2020, , .		7
21	Motion Control of a Mobile Robot Based on a Chaotic Iterative Map. , 2020, , .		1
22	Observer design for rectangular descriptor systems with incremental quadratic constraints and nonlinear outputsâ€"Application to secure communications. International Journal of Robust and Nonlinear Control, 2020, 30, 8139-8158.	2.1	17
23	A Chaotic Circuit with Bi-Color LED as a Nonlinear Element. , 2020, , .		0
24	A Novel Chaotic System with a Line Equilibrium: Analysis and Its Applications to Secure Communication and Random Bit Generation. Telecom, 2020, 1, 283-296.	1.6	6
25	A Two-Parameter Modified Logistic Map and Its Application to Random Bit Generation. Symmetry, 2020, 12, 829.	1.1	31
26	Passivity based control and synchronization of perturbed uncertain chaotic systems and their microcontroller implementation. International Journal of Dynamics and Control, 2020, 8, 973-990.	1.5	8
27	Analysis, Synchronization, and Robotic Application of a Modified Hyperjerk Chaotic System. Complexity, 2020, 2020, 1-15.	0.9	25
28	Extreme multi-stability analysis of a novel 5D chaotic system with hidden attractors, line equilibrium, permutation entropy and its secure communication scheme. European Physical Journal: Special Topics, 2020, 229, 1175-1188.	1.2	21
29	Modification of the Logistic Map Using Fuzzy Numbers with Application to Pseudorandom Number Generation and Image Encryption. Entropy, 2020, 22, 474.	1.1	38
30	Varyingâ€parameter finiteâ€time zeroing neural network for solving linear algebraic systems. Electronics Letters, 2020, 56, 810-813.	0.5	13
31	A Novel Chaotic System with Application to Secure Communications. , 2020, , .		2
32	Improving Pseudo-random Number Generators in a Floating-point Implementation. , 2020, , .		0
33	Chaotic Motion Control of a Mobile Robot Using a Memory Technique. , 2020, , .		3
34	Existence of Reachable and Observable Triples of Linear Discrete-Time Descriptor Systems. Circuits, Systems, and Signal Processing, 2019, 38, 1086-1098.	1.2	5
35	Synchronization of a Chaotic System with Line Equilibrium using a Descriptor Observer for Secure Communication. , 2019, , .		5
36	Analysis of a Chaotic System with Line Equilibrium and Its Application to Secure Communications Using a Descriptor Observer. Technologies, 2019, 7, 76.	3.0	11

#	Article	IF	Citations
37	Analysis, Synchronization and Microcontroller Implementation of a Generalized Hyperjerk System, with Application to Secure Communications Using a Descriptor Observer. , 2019, , .		4
38	Predictive Control of a Fractional Order Delayed Chaotic System with Circuit Implementation. , 2019, , .		0
39	An Inverse Pheromone Approach in a Chaotic Mobile Robot's Path Planning Based on a Modified Logistic Map. Technologies, 2019, 7, 84.	3.0	17
40	Dimensionality Reduction Reconstitution for Extreme Multistability in Memristor-Based Colpitts System. Complexity, 2019, 2019, 1-12.	0.9	3
41	Observability of linear discrete-time systems of algebraic and difference equations. International Journal of Control, 2019, 92, 339-355.	1.2	4
42	Reachability and controllability of discrete time descriptor systems using the Weierstrass decomposition. , 2018, , .		1
43	Analysis and Control of a Dynamical Model for HIV Infection With One or Two Inputs. Advances in Systems Analysis, Software Engineering, and High Performance Computing Book Series, 2018, , 357-381.	0.5	1
44	Closed form solution for the equations of motion for constrained linear mechanical systems and generalizations: An algebraic approach. Journal of the Franklin Institute, 2017, 354, 1421-1445.	1.9	16
45	Construction of Algebraic and Difference Equations with a Prescribed Solution Space. International Journal of Applied Mathematics and Computer Science, 2017, 27, 19-32.	1.5	2
46	New Discrete Time 2D Chaotic Maps. International Journal of System Dynamics Applications, 2017, 6, 77-104.	0.3	23
47	Introduction to Control Systems Design Using Matlab. International Journal of System Dynamics Applications, 2017, 6, 130-170.	0.3	14
48	Analysis of a Dynamical Model for HIV Infection with One or Two Inputs. International Journal of System Dynamics Applications, 2016, 5, 83-100.	0.3	3
49	Reachability of discrete time causal ARMA representations. , 2016, , .		0
50	Modeling of discrete time auto-regressive systems with given forward and backward behavior. , 2014, , .		0
51	On the modeling of discrete time Auto-Regressive representations. , 2014, , .		0
52	Algebraic Methods for the Construction of Algebraic-Difference Equations With Desired Behavior. Electronic Journal of Linear Algebra, 0, 34, 1-17.	0.6	5
53	Chaotic Path Planning for Grid Coverage Using a Modified Logistic-May Map. Journal of Automation, Mobile Robotics and Intelligent Systems, 0, , 3-9.	0.4	4