Ihsan Pehlivan

List of Publications by Year
in descending order

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43 papers	1,970 citations	279798 23 h-index	377865 34 g-index
43 all docs	43 docs citations	43 times ranked	1023 citing authors

#	Article	IF	Citations
1	Analysis, control, synchronization, and circuit design of a novel chaotic system. Mathematical and Computer Modelling, 2012, 55, 1904-1915.	2.0	203
2	Secure image encryption algorithm design using a novel chaos based S-Box. Chaos, Solitons and Fractals, 2017, 95, 92-101.	5.1	199
3	A new four-scroll chaotic attractor and its engineering applications. Optik, 2016, 127, 5491-5499.	2.9	138
4	A novel approach for strong S-Box generation algorithm design based on chaotic scaled Zhongtang system. Nonlinear Dynamics, 2017, 87, 1081-1094.	5.2	138
5	Analysis, synchronization and circuit design of a novel butterfly attractor. Journal of Sound and Vibration, 2014, 333, 5077-5096.	3.9	136
6	Chaos-based engineering applications with a 3D chaotic system without equilibrium points. Nonlinear Dynamics, 2016, 84, 481-495.	5.2	130
7	Implementation of FPGA-based real time novel chaotic oscillator. Nonlinear Dynamics, 2014, 77, 49-59.	5.2	89
8	A new 3D chaotic system: Dynamical analysis, electronic circuit design, active control synchronization and chaotic masking communication application. Optik, 2016, 127, 4024-4030.	2.9	85
9	A new three-dimensional chaotic system, its dynamical analysis and electronic circuit applications. Optik, 2016, 127, 7062-7071.	2.9	82
10	A novel hybrid encryption algorithm based on chaos and S-AES algorithm. Nonlinear Dynamics, 2018, 92, 1745-1759.	5.2	72
11	Hardware design and implementation of a novel ANN-based chaotic generator in FPGA. Optik, 2016, 127, 5500-5505.	2.9	69
12	Amplitude Control Analysis of a Four-Wing Chaotic Attractor, its Electronic Circuit Designs and Microcontroller-Based Random Number Generator. Journal of Circuits, Systems and Computers, 2017, 26, 1750190.	1.5	53
13	Design, FPGA implementation and statistical analysis of chaos-ring based dual entropy core true random number generator. Analog Integrated Circuits and Signal Processing, 2020, 102, 445-456.	1.4	51
14	High speed FPGA-based chaotic oscillator design. Microprocessors and Microsystems, 2019, 66, 72-80.	2.8	50
15	A novel chaosâ€based encryption algorithm over TCP data packet for secure communication. Security and Communication Networks, 2016, 9, 1285-1296.	1.5	45
16	A novel high speed Artificial Neural Networkâ€“based chaotic True Random Number Generator on Field Programmable Gate Array. International Journal of Circuit Theory and Applications, 2019, 47, 365-378.	2.0	42
17	A novel four-wing strange attractor born in bistability. IEICE Electronics Express, 2015, 12, 20141116-20141116.	0.8	39
18	A new 3D chaotic system with golden proportion equilibria: Analysis and electronic circuit realization. Computers and Electrical Engineering, 2012, 38, 1777-1784.	4.8	37

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19	SIMULATION AND CIRCUIT IMPLEMENTATION OF SPROTT CASE H CHAOTIC SYSTEM AND ITS SYNCHRONIZATION APPLICATION FOR SECURE COMMUNICATION SYSTEMS. Journal of Circuits, Systems and Computers, 2013, 22, 1350022.	1.5	36
20	Nonlinear Sprott94 Case A chaotic equation: Synchronization and masking communication applications. Computers and Electrical Engineering, 2010, 36, 1093-1100.	4.8	35
21	A 5-D Multi-Stable Hyperchaotic Two-Disk Dynamo System With No Equilibrium Point: Circuit Design, FPGA Realization and Applications to TRNGs and Image Encryption. IEEE Access, 2021, 9, 81352-81369.	4.2	32
22	Rikitake Attractor and Itâ€™s Synchronization Application for Secure Communication Systems. Journal of Applied Sciences, 2007, 7, 232-236.	0.3	28
23	Amplitude-phase control of a novel chaotic attractor. Turkish Journal of Electrical Engineering and Computer Sciences, 2016, 24, 1-11.	1.4	27
24	A novel ANN-based four-dimensional two-disk hyperchaotic dynamical system, bifurcation analysis, circuit realisation and FPGA-based TRNG implementation. International Journal of Computer Applications in Technology, 2020, 62, 20.	0.5	23
25	Text encryption by using one-dimensional chaos generators and nonlinear equations. , 2013, , .		21
26	The design and implementation of hybrid RSA algorithm using a novel chaos based RNG. Chaos, Solitons and Fractals, 2017, 104, 655-667.	5.1	21
27	Chaosâ€based encryption of multimedia data and design of security analysis interface as an educational tool. Computer Applications in Engineering Education, 2018, 26, 1336-1349.	3.4	14
28	A strange novel chaotic system with fully golden proportion equilibria and its mobile microcomputer-based RNG application. Chinese Journal of Physics, 2018, 56, 2852-2864.	3.9	13
29	Design and implementation of chaos based true random number generator on FPGA. , 2014, , .		12
30	A new computer-controlled platform for ADC-based true random number generator and its applications. Turkish Journal of Electrical Engineering and Computer Sciences, 0, , 847-860.	1.4	10
31	SÃ¼rekli ZamanlÄ± Otonom Kaotik Devre TasarÄ±mÄ± Ve Sinyal Gizleme UygulamasÄ±. Journal of the Faculty of Engineering and Architecture of Gazi University, 2014, 29, .	0.8	8
32	Yeni bir kaos tabanlÄ± rasgele sayÄ± Ã¼reteci kullanan banka ÅŸifrematik cihazÄ± tasarÄ±mÄ± ve uygulamasÄ±. Journal of the Faculty of Engineering and Architecture of Gazi University, 2018, 2018, .	0.8	7
33	A New Chaotic Mixer Design Based on the Delta Robot and Its Experimental Studies. Mathematical Problems in Engineering, 2021, 2021, 1-15.	1.1	6
34	Chaos in metaheuristic based artificial intelligence algorithms: a short review. Turkish Journal of Electrical Engineering and Computer Sciences, 2021, 29, 1354-1367.	1.4	6
35	Real time implementation of a novel chaotic generator on FPGA. , 2015, , .		4
36	Development of micro computer based mobile random number generator with an encryption application. The Integration VLSI Journal, 2021, 81, 1-16.	2.1	3

#	Article	IF	Citations
37	Electronic circuit design of Sprott H chaotic system with CCII+. , 2014, , .		2
38	A chaotic communication system design with chaotic on-off keying (COOK) modulation method. , 2015, , .		1
39	Real time hardware implementation of the 3D chaotic oscillator which having golden-section equilibra. , 2016, , .		1
40	Humik Asit Ãœretiminde KullanÄ±lan KarÄ±ÅŸtÄ±rÄ±cÄ±larÄ±n Kaotik Sistemler Ä°le PerformanslarÄ±nÄ±n Ä°yileÅŸtirilmesi. Turkish Journal of Agriculture: Food Science and Technology, 2021, 9, 508-514.	0.3	1
41	The Performance Analysis of Artificial Neural Network Based Shimizu-Morioka Chaotic System with Respect to Sample Numbers. Balkan Journal of Electrical and Computer Engineering, 2015, 3, .	0.6	1
42	Electronic circuit realization and synchronization application of Sprott 94 S chaotic system for secure communication systems. , 2013, , .		0
43	Bilateral comparison on time differences between two pulses between TÃœBÄ°TAK UME and SASO NMCC (GULFMET.TF-S1). Metrologia, 2019, 56, 05001-05001.	1.2	0