Fausto Montoya

List of Publications by Year
in descending order

52 papers	1,322 citations	535685 17 h-index	388640 36 g-index
52 all docs	52 docs citations	52 times ranked	610 citing authors

#	Article	IF	Citations
1	Finding attractors of continuous-time systems by parameter switching. Nonlinear Dynamics, 2012, 67, 2317-2342.	2.7	18
2	Calculation of the Structure of a Shrub in the Mandelbrot Set. Discrete Dynamics in Nature and Society, 2011, 2011, 1-23.	0.5	1
3	A new parameter determination method for some double-scroll chaotic systems and its applications to chaotic cryptanalysis. Communications in Nonlinear Science and Numerical Simulation, 2010, 15, 3471-3483.	1.7	20
4	BREAKING A SC-CNN-BASED CHAOTIC MASKING SECURE COMMUNICATION SYSTEM. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2009, 19, 1329-1338.	0.7	2
5	Coupling Patterns of External Arguments in the Multiple-Spiral Medallions of the Mandelbrot Set. Discrete Dynamics in Nature and Society, 2009, 2009, 1-14.	0.5	1
6	A general view of pseudoharmonics and pseudoantiharmonics to calculate external arguments of Douady and Hubbard. Applied Mathematics and Computation, 2009, 213, 484-497.	1.4	4
7	Determination of the parameters for a Lorenz system and application to break the security of two-channel chaotic cryptosystems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5588-5592.	0.9	19
8	ALGORITHM FOR EXTERNAL ARGUMENTS CALCULATION OF THE NODES OF A SHRUB IN THE MANDELBROT SET. Fractals, 2008, 16, 159-168.	1.8	5
9	Operating with External Arguments of Douady and Hubbard. Discrete Dynamics in Nature and Society, 2007, 2007, 1-17.	0.5	4
10	On periodic and chaotic regions in the Mandelbrot set. Chaos, Solitons and Fractals, 2007, 32, 15-25.	2.5	10
11	Equivalence between subshrubs and chaotic bands in the Mandelbrot set. Discrete Dynamics in Nature and Society, 2006, 2006, 1-25.	0.5	4
12	External arguments in the multiple-spiral medallions of the Mandelbrot set. Computers and Graphics, 2006, 30, 460-469.	1.4	3
13	Security analysis of communication system based on the synchronization of different order chaotic systems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2005, 345, 245-250.	0.9	32
14	External arguments for the chaotic bands calculation in the Mandelbrot set. Physica A: Statistical Mechanics and Its Applications, 2005, 353, 145-158.	1.2	10
15	Cryptanalyzing an improved security modulated chaotic encryption scheme using ciphertext absolute value. Chaos, Solitons and Fractals, 2005, 23, 1749-1756.	2.5	20
16	Breaking projective chaos synchronization secure communication using filtering and generalized synchronization. Chaos, Solitons and Fractals, 2005, 24, 775-783.	2.5	89
17	External arguments of Douady cauliflowers in the Mandelbrot set. Computers and Graphics, 2004, 28, 437-449.	1.4	16
18	Chaotic bands in the Mandelbrot set. Computers and Graphics, 2004, 28, 779-784.	1.4	15

#	Article	IF	Citations
19	Breaking parameter modulated chaotic secure communication system. Chaos, Solitons and Fractals, 2004, 21, 783-787.	2.5	73
20	Keystream cryptanalysis of a chaotic cryptographic method. Computer Physics Communications, 2004, 156, 205-207.	3.0	54
21	Cryptanalysis of dynamic look-up table based chaotic cryptosystems. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 326, 211-218.	0.9	96
22	Cryptanalyzing a discrete-time chaos synchronization secure communication system. Chaos, Solitons and Fractals, 2004, 21, 689-694.	2.5	41
23	Breaking a secure communication scheme based on the phase synchronization of chaotic systems. Chaos, 2004, 14, 274-278.	1.0	29
24	Breaking Two Secure Communication Systems Based on Chaotic Masking. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2004, 51, 505-506.	2.3	67
25	Cryptanalysis of a discrete chaotic cryptosystem using external key. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 319, 334-339.	0.9	95
26	Development of an ultrasonic high-pressure roller press. Chemical Engineering Science, 2003, 58, 4317-4322.	1.9	12
27	Cryptanalysis of a chaotic secure communication system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 306, 200-205.	0.9	42
28	Cryptanalysis of an ergodic chaotic cipher. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 311, 172-179.	0.9	158
29	How to work with one-dimensional quadratic maps. Chaos, Solitons and Fractals, 2003, 18, 899-915.	2.5	9
30	Shrubs in the Mandelbrot Set Ordering. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2003, 13, 2279-2300.	0.7	12
31	Operating with external arguments in the Mandelbrot set antenna. Physica D: Nonlinear Phenomena, 2002, 171, 52-71.	1.3	13
32	Misiurewicz point patterns generation in one-dimensional quadratic maps. Physica A: Statistical Mechanics and Its Applications, 2001, 292, 207-230.	1.2	6
33	Snail-like pattern generation with the HÃ©non family of maps. Computers and Graphics, 2001, 25, 529-537.	1.4	2
34	Cryptanalysis of a chaotic encryption system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2000, 276, 191-196.	0.9	96
35	Growth in complex exponential dynamics. Computers and Graphics, 2000, 24, 115-131.	1.4	11
36	Algorithm for computing minimum distance. Electronics Letters, 1999, 35, 1534.	0.5	3

#	Article	IF	Citations
37	Symbolic sequences of one-dimensional quadratic maps points. Physica A: Statistical Mechanics and Its Applications, 1998, 256, 369-382.	1.2	8
38	A simple non-linear technique for secondary calibration of ultrasonic probes. Sensors and Actuators A: Physical, 1998, 69, 68-71.	2.0	3
39	Determination of Mandelbrot Sets Hyperbolic Component Centres. Chaos, Solitons and Fractals, 1998, 9, 1997-2005.	2.5	8
40	Gray codes and 1D quadratic maps. Electronics Letters, 1998, 34, 1304.	0.5	14
41	Heredity in one-dimensional quadratic maps. Physical Review E, 1998, 58, 7214-7218.	0.8	7
42	Bound for linear complexity of BBS sequences. Electronics Letters, 1998, 34, 450.	0.5	7
43	Harmonic structure of one-dimensional quadratic maps. Physical Review E, 1997, 56, 1476-1483.	0.8	17
44	On the onset of transient cavitation in gassy liquids. Journal of the Acoustical Society of America, 1997, 101, 2536-2540.	0.5	9
45	A scaling constant equal to unity in 1-D quadratic maps. Computers and Graphics, 1997, 21, 849-857.	1.4	3
46	A revision of the Lyapunov exponent in 1D quadratic maps. Physica D: Nonlinear Phenomena, 1997, 107, 17-22.	1.3	7
47	Graphic tools to analyse one-dimensional quadratic maps. Computers and Graphics, 1996, 20, 333-339.	1.4	16
48	Misiurewicz points in one-dimensional quadratic maps. Physica A: Statistical Mechanics and Its Applications, 1996, 232, 517-535.	1.2	28
49	On the calculation of Misiurewicz patterns in one-dimensional quadratic maps. Physica A: Statistical Mechanics and Its Applications, 1996, 232, 536-553.	1.2	23
50	An approach to the ordering of one-dimensional quadratic maps. Chaos, Solitons and Fractals, 1996, 7, 565-584.	2.5	17
51	On the cusp and the tip of a midget in the Mandelbrot set antenna. Physics Letters, Section A: General, Atomic and Solid State Physics, 1996, 221, 158-162.	0.9	17
52	Automatic system for dynamic control of resonance in high power and high Q ultrasonic transducers. Ultrasonics, 1985, 23, 151-156.	2.1	46