Muhammad Asif Gondal

List of Publications by Year
in descending order

35 papers	1,438 citations	331259 21 h-index	377514 34 g-index
35 all docs	35 docs citations	35 times ranked	559 citing authors

#	Article	IF	Citations
1	A novel technique for the construction of strong S-boxes based on chaotic Lorenz systems. Nonlinear Dynamics, 2012, 70, 2303-2311.	2.7	139
2	A projective general linear group based algorithm for the construction of substitution box for block ciphers. Neural Computing and Applications, 2013, 22, 1085-1093.	3.2	127
3	An efficient method for the construction of block cipher with multi-chaotic systems. Nonlinear Dynamics, 2013, 71, 489-492.	2.7	111
4	A group theoretic approach to construct cryptographically strong substitution boxes. Neural Computing and Applications, 2013, 23, 97-104.	3.2	104
5	A novel approach for designing substitution-boxes based on nonlinear chaotic algorithm. Nonlinear Dynamics, 2012, 70, 1791-1794.	2.7	85
6	An efficient technique for the construction of substitution box with chaotic partial differential equation. Nonlinear Dynamics, 2013, 73, 1795-1801.	2.7	82
7	An efficient approach for the construction of LFT S-boxes using chaotic logistic map. Nonlinear Dynamics, 2013, 71, 133-140.	2.7	75
8	Application of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" display="inline" overflow="scroll"><mml:mi>S</mml:mi></mml:math>-box and chaotic map for image encryption. Mathematical and Computer Modelling, 2013, 57, 2576-2579.	2.0	71
9	Image encryption algorithm based on PGL(2,GF(28)) S-boxes and TD-ERCS chaotic sequence. Nonlinear Dynamics, 2012, 70, 181-187.	2.7	68
10	An extended image encryption using chaotic coupled map and S-box transformation. Nonlinear Dynamics, 2014, 76, 1355-1363.	2.7	64
11	Construction of S8 Liu J S-boxes and their applications. Computers and Mathematics With Applications, 2012, 64, 2450-2458.	1.4	60
12	An efficient image encryption algorithm based on S8 S-box transformation and NCA map. Optics Communications, 2012, 285, 4887-4890.	1.0	47
13	A novel image encryption algorithm based on chaotic maps and GF(28) exponent transformation. Nonlinear Dynamics, 2013, 72, 399-406.	2.7	46
14	Generalized Majority Logic Criterion to Analyze the Statistical Strength of S-Boxes. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 282-288.	0.7	43
15	A new analytical solution procedure for nonlinear integral equations. Mathematical and Computer Modelling, 2012, 55, 1892-1897.	2.0	39
16	Efficient method for designing chaotic S-boxes based on generalized Baker's map and TDERC chaotic sequence. Nonlinear Dynamics, 2013, 74, 271-275.	2.7	34
17	A novel method for designing nonlinear component for block cipher based on TD-ERCS chaotic sequence. Nonlinear Dynamics, 2013, 73, 633-637.	2.7	33
18	A novel solution procedure for fuzzy fractional heat equations by homotopy analysis transform method. Neural Computing and Applications, 2013, 23, 269-271.	3.2	32

#	Article	IF	Citations
19	A novel design for the construction of safe S-boxes based on TDERC sequence. AEJ - Alexandria Engineering Journal, 2015, 54, 65-69.	3.4	30
20	A Scheme for Obtaining Secure S-Boxes Based on Chaotic Baker's Map. 3D Research, 2014, 5, 1.	1.8	27
21	Application of Mean of Absolute Deviation Method for the Selection of Best Nonlinear Component Based on Video Encryption. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2013, 68, 479-482.	0.7	23
22	Analysis of S-box in Image Encryption Using Root Mean Square Error Method. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 327-332.	0.7	19
23	Image encryption algorithm based on total shuffling scheme and chaotic S-box transformation. JVC/Journal of Vibration and Control, 2014, 20, 2133-2136.	1.5	18
24	Construction of Nonlinear Component for Block Cipher Based on One-Dimensional Chaotic Map. 3D Research, 2015, 6, 1.	1.8	17
25	S8 affine-power-affine S-boxes and their applications. Neural Computing and Applications, 2012, 21, 377-383.	3.2	13
26	A new modified Laplace decomposition method for higher order boundary value problems. Computational and Mathematical Organization Theory, 2013, 19, 446-459.	1.5	8
27	Construction of New S-Boxes Over Finite Field and Their Application to Watermarking. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 705-710.	0.7	4
28	A New Analytical Approach to Solve Magnetohydrodynamics Flow Over a Nonlinear Porous Stretching Sheet by Laplace Padé Decomposition Method. Results in Mathematics, 2013, 63, 289-301.	0.4	4
29	Construction of Substitution Box Based on Piecewise Linear Chaotic Map and S8 Group. 3D Research, 2015, 6, 1.	1.8	4
30	New Computational Dynamics for Magnetohydrodynamics Flow over a Nonlinear Stretching Sheet. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2012, 67, 262-266.	0.7	3
31	A novel fractional Laplace decomposition method for chaotic systems and the generation of chaotic sequences. JVC/Journal of Vibration and Control, 2014, 20, 2530-2535.	1.5	3
32	An Algorithm to Generating Inverse S-box for Rijndael Encryption Standard. 3D Research, 2014, 5, 1.	1.8	2
33	Construction of Dynamical Non-linear Components Based on Lorenz System and Symmetric Group of Permutations. 3D Research, 2015, 6, 1.	1.8	2
34	An efficient computational approach for hydromagnetic stagnation flow towards a stretching sheet. Afrika Matematika, 2013, 24, 321-329.	0.4	1
35	Impact of Error Detecting or Correcting Codes on the Sensitivity to DPA of an AES S-Box. 3D Research, 2014, 5, 1.	1.8	0