Zaer S Abo-Hammour

List of Publications by Year
in descending order

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29 papers	2,533 citations	687363 13 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	2708 citing authors

#	Article	IF	Citations
1	A Genetic Algorithm Approach for Prediction of Linear Dynamical Systems. Mathematical Problems in Engineering, 2013, 2013, 1-12.	1.1	1,476
2	Numerical solution of systems of second-order boundary value problems using continuous genetic algorithm. Information Sciences, 2014, 279, 396-415.	6.9	386
3	Optimization Solution of Troeschâ€™s and Bratuâ€™s Problems of Ordinary Type Using Novel Continuous Genetic Algorithm. Discrete Dynamics in Nature and Society, 2014, 2014, 1-15.	0.9	126
4	An Optimization Algorithm for Solving Systems of Singular Boundary Value Problems. Applied Mathematics and Information Sciences, 2014, 8, 2809-2821.	0.5	88
5	Solving Singular Two-Point Boundary Value Problems Using Continuous Genetic Algorithm. Abstract and Applied Analysis, 2012, 2012, 1-25.	0.7	75
6	A Reliable Analytical Method for Solving Higher-Order Initial Value Problems. Discrete Dynamics in Nature and Society, 2013, 2013, 1-12.	0.9	58
7	Invasive weed optimization for model order reduction of linear MIMO systems. Applied Mathematical Modelling, 2013, 37, 4570-4577.	4.2	52
8	Cartesian path generation of robot manipulators using continuous genetic algorithms. Robotics and Autonomous Systems, 2002, 41, 179-223.	5.1	38
9	ARMA model order and parameter estimation using genetic algorithms. Mathematical and Computer Modelling of Dynamical Systems, 2012, 18, 201-221.	2.2	31
10	Application of Continuous Genetic Algorithm for Nonlinear System of Second-Order Boundary Value Problems. Applied Mathematics and Information Sciences, 2014, 8, 235-248.	0.5	26
11	A novel continuous genetic algorithm for the solution of optimal control problems. Optimal Control Applications and Methods, 2011, 32, 414-432.	2.1	21
12	Numerical solution of second-order, two-point boundary value problems using continuous genetic algorithms. International Journal for Numerical Methods in Engineering, 2004, 61, 1219-1242.	2.8	19
13	Substructure Preservation Sylvester-based Model Order Reduction with Application to Power Systems. Electric Power Components and Systems, 2014, 42, 914-926.	1.8	18
14	Artificial neural network for discrete model order reduction with substructure preservation. Applied Mathematical Modelling, 2011, 35, 4620-4629.	4.2	14
15	A Robust Computational Technique for Model Order Reduction of Two-Time-Scale Discrete Systems via Genetic Algorithms. Computational Intelligence and Neuroscience, 2015, 2015, 1-9.	1.7	14
16	Genetic algorithm approach with frequency selectivity for model order reduction of MIMO systems. Mathematical and Computer Modelling of Dynamical Systems, 2011, 17, 163-181.	2.2	11
17	Identification of hysteresis models using real-coded genetic algorithms. European Physical Journal Plus, 2019, 134, 1.	2.6	11
18	Frequency-based model order reduction via genetic algorithm approach. , 2011, , .		10

#	Article	IF	Citations
19	MULTI-TIME-SCALE SYSTEMS MODEL ORDER REDUCTION VIA GENETIC ALGORITHMS WITH EIGENVALUE PRESERVATION. Journal of Circuits, Systems and Computers, 2011, 20, 1403-1418.	1.5	10
20	Soft Computing Techniques for Reduced Order Modelling: Review and Application. Intelligent Automation and Soft Computing, 2016, 22, 125-142.	2.1	10
21	Robust model order reduction technique for MIMO systems via ANNâ€LMIâ€based state residualization. International Journal of Circuit Theory and Applications, 2012, 40, 341-354.	2.0	9
22	Improving Genetic Algorithms for Optimal Land-Use Allocation. Journal of the Urban Planning and Development Division, ASCE, 2021, 147, 04021049.	1.7	8
23	Continuous Genetic Algorithm as a Novel Solver for Stokes and Nonlinear Navier Stokes Problems. Mathematical Problems in Engineering, 2014, 2014, 1-18.	1.1	7
24	Optimal Design of Lead Compensator Using Nature-Inspired Algorithms. , 2019, , .		6
25	A robust and efficient genetic algorithm for solving a chemical reactor problem: theory, application and convergence analysis. Transactions of the Institute of Measurement and Control, 2012, 34, 594-603.	1.7	5
26	PARTICLE SWARM OPTIMIZATION FOR MOR OF SINGULARLY PERTURBED SYSTEMS WITH CRITICAL FREQUENCY PRESERVATION AND APPLICATION TO POWER SYSTEMS SIMPLIFIED MODELING. Journal of Circuits, Systems and Computers, 2014, 23, 1450073.	1.5	4
27	A Novel Technique for ARMA Modelling with Order and Parameter Estimation Using Genetic Algorithms. Communications in Computer and Information Science, 2010, , 564-576.	0.5	0
28	Efficient Substructure Preserving MOR Using Real-Time Temporal Supervised Neural Network. Communications in Computer and Information Science, 2010, , 193-202.	0.5	0
29	ARTIFICIAL NEURAL NETWORK FOR DISCRETE MODEL ORDER REDUCTION WITH FREQUENCY SELECTIVITY. World Scientific Proceedings Series on Computer Engingeering and Information Science, 2012, , 1011-1016.	0.1	0