Sohrab Effati

List of Publications by Year
in descending order

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148	2,057	279487	329751
papers	citations	23 h-index	37 g-index

149	149	149	1408
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A compact MLCP-based projection recurrent neural network model to solve shortest path problem. Journal of Experimental and Theoretical Artificial Intelligence, 2023, 35, 1101-1119.	1.8	1
2	A New Numerical Approach for Solving Fractional Optimal Control Problems with the Caputoâ€“Fabrizio Fractional Operator. Journal of Mathematics, 2022, 2022, 1-16.	0.5	1
3	Linear quadratic optimal control problem with fuzzy variables via neural network. Journal of Experimental and Theoretical Artificial Intelligence, 2021, 33, 283-296.	1.8	0
4	A numerical method based on a bilinear pseudo-spectral method to solve the convection-diffusion optimal control problems. International Journal of Computer Mathematics, 2021, 98, 28-46.	1.0	8
5	Generalized Variant Support Vector Machine. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2798-2809.	5.9	7
6	Parametric NCP-Based Recurrent Neural Network Model: A New Strategy to Solve Fuzzy Nonconvex Optimization Problems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 2592-2601.	5.9	13
7	An efficient approximate method for solving two-dimensional fractional optimal control problems using generalized fractional order of Bernstein functions. IMA Journal of Mathematical Control and Information, 2021, 38, 378-395.	1.1	1
8	A family of similarity measures for qâ€rung orthopair fuzzy sets and their applications to multiple criteria decision making. International Journal of Intelligent Systems, 2021, 36, 1535-1559.	3.3	28
9	Solving the Fractional Optimal Control of a Spring-Mass-Viscodamper System with Caputoâ€“Fabrizio Fractional Operator. Iranian Journal of Science and Technology, Transaction A: Science, 2021, 45, 247-257.	0.7	3
10	On Shortest Path Problem via a Novel Neurodynamic Model: A Case Study. Advances in Intelligent Systems and Computing, 2021, , 754-770.	0.5	0
11	Symmetric and Right-Hand-Side Hesitant Fuzzy Linear Programming. IEEE Transactions on Fuzzy Systems, 2020, 28, 215-227.	6.5	20
12	Optimal drug control in a fourâ€dimensional HIV infection model. Optimal Control Applications and Methods, 2020, 41, 469-486.	1.3	6
13	Projection Recurrent Neural Network Model: A New Strategy to Solve Maximum Flow Problem. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 2747-2751.	2.2	3
14	Hesitant fuzzy numbers with (Î±, k)-cuts in compact intervals and applications. Expert Systems With Applications, 2020, 151, 113363.	4.4	17
15	Multi objective programming problem in the hesitant fuzzy environment. Applied Intelligence, 2020, 50, 2991-3006.	3.3	11
16	Fractional optimal control problems with time-varying delay: A new delay fractional Eulerâ€“Lagrange equations. Journal of the Franklin Institute, 2020, 357, 5954-5988.	1.9	17
17	An iterative method for suboptimal control of a class of nonlinear time-delayed systems. International Journal of Control, 2019, 92, 2869-2885.	1.2	4
18	A generalized Legendreâ€“Gauss collocation method for solving nonlinear fractional differential equations with time varying delays. Applied Numerical Mathematics, 2019, 146, 342-360.	1.2	14

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19	Fuzzy classification as a decision making problem in hesitant environments. International Journal of Information and Decision Sciences, 2019, 11, 22.	0.1	3
20	The synchronization of chaotic systems applying the parallel synchronization method. Physica Scripta, 2019, 94, 105215.	1.2	16
21	Recurrent Neural Network Model: A New Strategy to Solve Fuzzy Matrix Games. IEEE Transactions on Neural Networks and Learning Systems, 2019, 30, 2538-2547.	7.2	18
22	A New Method for Classifying Random Variables Based on Support Vector Machine. Journal of Classification, 2019, 36, 152-174.	1.2	3
23	An efficient neurodynamic model to solve nonlinear programming problems with fuzzy parameters. Neurocomputing, 2019, 334, 125-133.	3.5	13
24	An Artificial Neural Network Model to Solve the Fuzzy Shortest Path Problem. Neural Processing Letters, 2019, 50, 1527-1548.	2.0	14
25	An Artificial Neural Network for Solving Distributed Optimal Control of the Poissonâ€™s Equation. Neural Processing Letters, 2019, 49, 159-175.	2.0	9
26	Solving optimal control problem using Hermite wavelet. Numerical Algebra, Control and Optimization, 2019, 9, 101-112.	1.0	9
27	An iterative approach for solving fractional optimal control problems. JVC/Journal of Vibration and Control, 2018, 24, 18-36.	1.5	42
28	The Laplaceâ€collocation method for solving fractional differential equations and a class of fractional optimal control problems. Optimal Control Applications and Methods, 2018, 39, 1110-1129.	1.3	12
29	Solving a class of fractional optimal control problems by the Hamiltonâ€“Jacobiâ€“Bellman equation. JVC/Journal of Vibration and Control, 2018, 24, 1741-1756.	1.5	24
30	Solution for fractional distributed optimal control problem by hybrid meshless method. JVC/Journal of Vibration and Control, 2018, 24, 2149-2164.	1.5	12
31	Modified Adomian decomposition method for solving fractional optimal control problems. Transactions of the Institute of Measurement and Control, 2018, 40, 2054-2061.	1.1	16
32	Approximation methods for solving fractional optimal control problems. Computational and Applied Mathematics, 2018, 37, 158-182.	1.3	17
33	A neural network to solve quadratic programming problems with fuzzy parameters. Fuzzy Optimization and Decision Making, 2018, 17, 75-101.	3.4	15
34	Stochastic support vector regression with probabilistic constraints. Applied Intelligence, 2018, 48, 243-256.	3.3	4
35	T-operators in hesitant fuzzy sets and their applications to fuzzy rule-based classifier. Applied Soft Computing Journal, 2018, 62, 423-440.	4.1	9
36	Stochastic Support Vector Machine for Classifying and Regression of Random Variables. Neural Processing Letters, 2018, 48, 1-29.	2.0	13

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37	Some new solution concepts in generalized fuzzy multiobjective optimization problems. Soft Computing, 2018, 22, 3261-3270.	2.1	3
38	An Efficient Neural Network Model for Solving the Absolute Value Equations. IEEE Transactions on Circuits and Systems II: Express Briefs, 2018, 65, 391-395.	2.2	23
39	Formulation of Eulerâ€“Lagrange Equations for Multidelay Fractional Optimal Control Problems. Journal of Computational and Nonlinear Dynamics, 2018, 13, .	0.7	8
40	A New Approach for Solving Optimal Control Problem by Using Orthogonal Function. , 2018, , 223-232.		0
41	A Neural Network Approach for Solving a Class of Fractional Optimal Control Problems. Neural Processing Letters, 2017, 45, 59-74.	2.0	67
42	Mixed Tabu machine for portfolio optimization problem. International Journal of Computer Mathematics, 2017, 94, 1089-1107.	1.0	3
43	Numerical solutions for solving a class of fractional optimal control problems via fixed-point approach. SeMA Journal, 2017, 74, 585-603.	1.0	15
44	An artificial neural network for solving quadratic zero-one programming problems. Neurocomputing, 2017, 235, 192-198.	3.5	8
45	Numerical Schemes for Fractional Optimal Control Problems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2017, 139, .	0.9	6
46	Optimal Control Formulation for Complementarity Dynamical Systems. Journal of Optimization Theory and Applications, 2017, 175, 356-372.	0.8	0
47	Adaptive synchronization between two non-identical BAM neural networks with unknown parameters and time-varying delays. International Journal of Control, Automation and Systems, 2017, 15, 1877-1887.	1.6	12
48	Comments on â€œA discrete method to solve fractional optimal control problemsâ€•(Nonlinear Dyn,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.7	2
49	Solving differential equations of fractional order using an optimization technique based on training artificial neural network. Applied Mathematics and Computation, 2017, 293, 81-95.	1.4	106
50	An efficient recurrent neural network model for solving fuzzy non-linear programming problems. Applied Intelligence, 2017, 46, 308-327.	3.3	18
51	A Neurodynamic Model to Solve Nonlinear Pseudo-Monotone Projection Equation and Its Applications. IEEE Transactions on Cybernetics, 2017, 47, 3050-3062.	6.2	46
52	A Novel Method to Solve a Class of Distributed Optimal Control Problems Using Bezier Curves. Journal of Computational and Nonlinear Dynamics, 2016, 11, .	0.7	11
53	A novel neural network based on NCP function for solving constrained nonconvex optimization problems. Complexity, 2016, 21, 130-141.	0.9	4
54	Approximating the Solution of Optimal Control Problems by Fuzzy Systems. Neural Processing Letters, 2016, 43, 667-686.	2.0	15

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55	Fuzzy Projection Over a Crisp Set and Applications. International Journal of Fuzzy Systems, 2016, 18, 312-319.	2.3	1
56	An efficient method to solve a fractional differential equation by using linear programming and its application to an optimal control problem. JVC/Journal of Vibration and Control, 2016, 22, 2120-2134.	1.5	14
57	Smoothing approach for a class of nonsmooth optimal control problems. Applied Mathematical Modelling, 2016, 40, 886-903.	2.2	8
58	On fuzzy linear projection equation and applications. Fuzzy Optimization and Decision Making, 2016, 15, 219-236.	3.4	4
59	Solution of linear time-varying multi-delay systems via variational iteration method. Journal of Mathematics and Computer Science, 2016, 16, 282-297.	0.5	2
60	Measure theory approach in sliding mode control for nonlinear systems with disturbances. International Journal of Modelling, Identification and Control, 2015, 24, 120.	0.2	3
61	An iterative method for suboptimal control of linear time-delayed systems. Systems and Control Letters, 2015, 82, 40-50.	1.3	17
62	New ultimate bound sets and exponential finite-time synchronization for the complex Lorenz system. Journal of Complexity, 2015, 31, 715-730.	0.7	29
63	An efficient projection neural network for solving bilinear programming problems. Neurocomputing, 2015, 168, 1188-1197.	3.5	43
64	ODT: Optimal deadline-based trajectory for mobile sinks in WSN: A decision tree and dynamic programming approach. Computer Networks, 2015, 77, 128-143.	3.2	27
65	Artificial neural network method for solving the Navierâ€“Stokes equations. Neural Computing and Applications, 2015, 26, 765-773.	3.2	44
66	Ultimate bound sets of a hyperchaotic system and its application in chaos synchronization. Complexity, 2015, 20, 30-44.	0.9	37
67	Ranking decision-making units by using combination of analytical hierarchical process method and Tchebycheff model in data envelopment analysis. Annals of Operations Research, 2015, 226, 505-525.	2.6	9
68	On Generalized Convexity of Nonlinear Complementarity Functions. Journal of Optimization Theory and Applications, 2015, 164, 723-730.	0.8	10
69	Hierarchical tree clustering of fuzzy number. Journal of Intelligent and Fuzzy Systems, 2014, 26, 541-550.	0.8	8
70	Hybrid projective synchronization and control of the Baierâ€“Sahle hyperchaotic flow in arbitrary dimensions with unknown parameters. Applied Mathematics and Computation, 2014, 248, 55-69.	1.4	12
71	A new computational approach for solving optimal control of linear PDEs problem. Acta Mathematicae Applicatae Sinica, 2014, 30, 735-748.	0.4	0
72	On the piecewise-spectral homotopy analysis method and its convergence: solution of hyperchaotic LÃ¼ system. Journal of Numerical Mathematics, 2014, 22, .	1.8	3

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73	Feedback controller design for linear and a class of nonlinear optimal control problems. Optimal Control Applications and Methods, 2014, 35, 271-285.	1.3	4
74	Bifurcation analysis of a cellular nonlinear network model via neural network approach. Neural Computing and Applications, 2014, 24, 1147-1152.	3.2	0
75	Optimal and adaptive control for a kind of 3D chaotic and 4D hyper-chaotic systems. Applied Mathematical Modelling, 2014, 38, 759-774.	2.2	36
76	Global stability analysis and existence of periodic solutions in an eight-neuron BAM neural network model with delays. Journal of Intelligent and Fuzzy Systems, 2014, 27, 391-406.	0.8	5
77	Generalized Eulerâ€“Lagrange equation for nonsmooth calculus of variations. Nonlinear Dynamics, 2014, 75, 85-100.	2.7	6
78	On Maximizing the Lifetime of Wireless Sensor Networks in Event-driven Applications with Mobile Sinks. IEEE Transactions on Vehicular Technology, 2014, , 1-1.	3.9	38
79	Time optimal control problem of the heat equation with thermal source. IMA Journal of Mathematical Control and Information, 2014, 31, 385-402.	1.1	3
80	An approximate method for solving a class of nonlinear optimal control problems. Optimal Control Applications and Methods, 2014, 35, 324-339.	1.3	4
81	Spectral homotopy analysis method and its convergence for solving a class of nonlinear optimal control problems. Numerical Algorithms, 2014, 65, 171-194.	1.1	17
82	Implementing state distribution model in asterisk server. , 2014, , .		0
83	An application of a merit function for solving convex programming problems. Computers and Industrial Engineering, 2013, 66, 212-221.	3.4	33
84	Optimal control problem via neural networks. Neural Computing and Applications, 2013, 23, 2093-2100.	3.2	45
85	Existence and stability analysis of bifurcating periodic solutions in a delayed five-neuron BAM neural network model. Nonlinear Dynamics, 2013, 72, 149-164.	2.7	23
86	ANALYTIC-APPROXIMATE SOLUTION FOR A CLASS OF NONLINEAR OPTIMAL CONTROL PROBLEMS BY HOMOTOPY ANALYSIS METHOD. Asian-European Journal of Mathematics, 2013, 06, 1350012.	0.2	2
87	Fuzzy clustering algorithm for fuzzy data based on Î±-cuts. Journal of Intelligent and Fuzzy Systems, 2013, 24, 511-519.	0.8	5
88	Solution of linear optimal control systems by differential transform method. Neural Computing and Applications, 2013, 23, 1311-1317.	3.2	29
89	An improvement to the homotopy perturbation method for solving the Hamilton-Jacobi-Bellman equation. IMA Journal of Mathematical Control and Information, 2013, 30, 487-506.	1.1	11
90	A set of new kernel function for support vector machines: An approach based on Chebyshev polynomials. , 2013, , .		1

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91	Classification of fuzzy data based on the support vector machines. Expert Systems, 2013, 30, 403-417.	2.9	1
92	Hyperchaos control of the hyperchaotic Chen system by optimal control design. Nonlinear Dynamics, 2013, 73, 499-508.	2.7	53
93	Gravitation based classification. Information Sciences, 2013, 220, 319-330.	4.0	20
94	Homotopy perturbation method and Heâ€™s polynomials for solving the porous media equation. Computational Mathematics and Modeling, 2013, 24, 279-292.	0.2	4
95	A New Piecewise-Spectral Homotopy Analysis Method for Solving Chaotic Systems of Initial Value Problems. Mathematical Problems in Engineering, 2013, 2013, 1-13.	0.6	8
96	Numerical Solution for IVP in Volterra Type Linear Integrodifferential Equations System. Abstract and Applied Analysis, 2013, 2013, 1-4.	0.3	6
97	AN ENERGY-EFFICIENT DEADLINE-BASED DATA GATHERING ALGORITHM IN HIERARCHICAL WSN WITH MOBILE SINK. Journal of Interconnection Networks, 2013, 14, 1350009.	0.6	0
98	EMBEDDED-BASED SLIDING MODE CONTROL DESIGN. Control and Intelligent Systems, 2013, 41, .	0.3	0
99	Sliding mode controllers for second order and extended Heisenberg systems. International Journal of Modelling, Identification and Control, 2012, 16, 345.	0.2	5
100	A highly computational efficient method to solve nonlinear optimal control problems. Scientia Iranica, 2012, 19, 759-766.	0.3	6
101	A neural network approach for solving Fredholm integral equations of the second kind. Neural Computing and Applications, 2012, 21, 843-852.	3.2	33
102	An approximate-analytical solution for the Hamiltonâ€“Jacobiâ€“Bellman equation via homotopy perturbation method. Applied Mathematical Modelling, 2012, 36, 5614-5623.	2.2	43
103	Energy efficient data gathering algorithm in hierarchical wireless sensor networks with mobile sink. , 2012, , .		4
104	Infinite horizon optimal control for nonlinear interconnected largeâ€scale dynamical systems with an application to optimal attitude control. Asian Journal of Control, 2012, 14, 1239-1250.	1.9	65
105	Solving a class of nonlinear optimal control problems via heâ€™s variational iteration method. International Journal of Control, Automation and Systems, 2012, 10, 249-256.	1.6	19
106	An extension to fuzzy support vector data description (FSVDD*). Pattern Analysis and Applications, 2012, 15, 237-247.	3.1	11
107	Comment on â€œSupport vector machine for classification based on fuzzy training dataâ€•by A.-B. Ji, J.-H. Pang, H.-J. Qiu [Expert Systems with Applications 37 (2010) 3495â€“3498]. Expert Systems With Applications, 2012, 39, 7581-7583.	4.4	1
108	Support Vector Data Description by using hyper-ellipse instead of hyper-sphere. , 2011, , .		5

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109	Support vector regression with fuzzy target output. , 2011, , .		0
110	A NOVEL RECURRENT NEURAL NETWORK FOR SOLVING MLCPs AND ITS APPLICATION TO LINEAR AND QUADRATIC PROGRAMMING PROBLEMS. Asia-Pacific Journal of Operational Research, 2011, 28, 523-541.	0.9	6
111	Eigenvector selection in spectral clustering using Tabu Search. , 2011, , .		2
112	A global linearization approach to solve nonlinear nonsmooth constrained programming problems. Computational and Applied Mathematics, 2011, 30, 427-443.	1.0	7
113	Solving infinite horizon nonlinear optimal control problems using an extended modal series method. Journal of Zhejiang University: Science C, 2011, 12, 667-677.	0.7	23
114	A new fuzzy neural network model for solving fuzzy linear programming problems and its applications. Neural Computing and Applications, 2011, 20, 1285-1294.	3.2	12
115	A Feed-Forward Neural Network for Solving Stokes Problem. Acta Applicandae Mathematicae, 2011, 116, 55-64.	0.5	4
116	Fuzzy cost support vector regression on the fuzzy samples. Applied Intelligence, 2011, 35, 428-435.	3.3	2
117	A novel recurrent nonlinear neural network for solving quadratic programming problems. Applied Mathematical Modelling, 2011, 35, 1688-1695.	2.2	22
118	Solving a class of linear and non-linear optimal control problems by homotopy perturbation method. IMA Journal of Mathematical Control and Information, 2011, 28, 539-553.	1.1	28
119	Solving Famous Nonlinear Coupled Equations with Parameters Derivative by Homotopy Analysis Method. International Journal of Differential Equations, 2011, 2011, 1-15.	0.3	2
120	Interval Support Vector Machine In Regression Analysis. Journal of Mathematics and Computer Science, 2011, 02, 565-571.	0.5	4
121	Artificial neural network approach for solving fuzzy differential equations. Information Sciences, 2010, 180, 1434-1457.	4.0	107
122	Multiobjective Optimal Control of HIV Dynamics. Mathematical Problems in Engineering, 2010, 2010, 1-29.	0.6	14
123	A novel approach with parallel processing capability to solve optimal control problem of nonlinear large-scale systems. , 2010, , .		1
124	Almost optimal sliding mode control for linear time varying systems. , 2010, , .		0
125	Emphatic Constraints Support Vector Machines for Multi-class Classification. , 2009, , .		1
126	A recurrent neural network-based method for training probabilistic Support Vector Machine. International Journal of Signal and Imaging Systems Engineering, 2009, 2, 57.	0.6	4

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127	Solving the optimal control problem of the parabolic PDEs in exploitation of oil. Journal of Mathematical Analysis and Applications, 2008, 340, 606-620.	0.5	4
128	A new numerical method by revised measure theory for solving the nonlinear initial value problems. Applied Mathematics and Computation, 2007, 186, 780-788.	1.4	0
129	A new nonlinear neural network for solving a class of constrained parametric optimization problems. Applied Mathematics and Computation, 2007, 186, 814-819.	1.4	5
130	A new numerical method for solving the general form of the second order partial differential equations. Applied Mathematics and Computation, 2007, 188, 1087-1093.	1.4	0
131	Application of projection neural network in solving convex programming problems. Applied Mathematics and Computation, 2007, 188, 1103-1114.	1.4	44
132	Nonlinear neural networks for solving the shortest path problem. Applied Mathematics and Computation, 2007, 189, 567-574.	1.4	11
133	Eigenvalue spread criteria in the particle swarm optimization algorithm for solving of constraint parametric problems. Applied Mathematics and Computation, 2007, 192, 40-50.	1.4	11
134	Steepest descent method for solving zero-one nonlinear programming problems. Applied Mathematics and Computation, 2007, 193, 197-202.	1.4	7
135	The probabilistic constraints in the support vector machine. Applied Mathematics and Computation, 2007, 194, 467-479.	1.4	10
136	Solving a system of the nonlinear equations by iterative dynamic programming. Journal of Applied Mathematics and Computing, 2007, 24, 399-409.	1.2	0
137	A new approach for asymptotic stability system of the nonlinear ordinary differential equations. Journal of Applied Mathematics and Computing, 2007, 25, 231-244.	1.2	9
138	Neural network models and its application for solving linear and quadratic programming problems. Applied Mathematics and Computation, 2006, 172, 305-331.	1.4	66
139	Iterative dynamic programming for solving linear and nonlinear differential equations. Applied Mathematics and Computation, 2006, 175, 247-257.	1.4	6
140	The minimization of the fuel costs in the train transportation. Applied Mathematics and Computation, 2006, 175, 1415-1431.	1.4	13
141	Conversion of some classes of fractional programming to second-order cone programming and solving it by potential reduction interior point method. Applied Mathematics and Computation, 2006, 181, 563-578.	1.4	3
142	Solving of optimal control problem of parabolic PDEs in exploitation of oil by iterative dynamic programming. Applied Mathematics and Computation, 2006, 181, 1505-1512.	1.4	3
143	A new nonlinear neural network for solving quadratic programming problems. Applied Mathematics and Computation, 2005, 165, 719-729.	1.4	12
144	A new method for solving a system of the nonlinear equations. Applied Mathematics and Computation, 2005, 168, 877-894.	1.4	21

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145	A new nonlinear neural network for solving convex nonlinear programming problems. Applied Mathematics and Computation, 2005, 168, 1370-1379.	1.4	22
146	A new method for solving the nonlinear second-order boundary value differential equations. Korean Journal of Computational and Applied Mathematics, 2000, 7, 183-193.	0.2	4
147	A suboptimal control of linear time-delay problems via dynamic programming. IMA Journal of Mathematical Control and Information, 0, , .	1.1	0
148	Stability analysis of the Euler-Bernoulli beam with multi-delay controller. Control Theory and Technology, 0, , .	1.0	0