Siamak Mehrkanoon

List of Publications by Year
in descending order

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40 papers	934 citations	471061 17 h-index	454577 30 g-index
41 all docs	41 docs citations	41 times ranked	737 citing authors

#	Article	IF	Citations
1	A machine learning approach for the design of hyperbranched polymeric dispersing agents based on aliphatic polyesters for radiationâ€curable inks. Polymer International, 2022, 71, 966-975.	1.6	2
2	Vegetable intake and the risk of bladder cancer in the BLadder Cancer Epidemiology and Nutritional Determinants (BLEND) international study. BMC Medicine, 2021, 19, 56.	2.3	17
3	SmaAt-UNet: Precipitation nowcasting using a small attention-UNet architecture. Pattern Recognition Letters, 2021, 145, 178-186.	2.6	179
4	Broad-UNet: Multi-scale feature learning for nowcasting tasks. Neural Networks, 2021, 144, 419-427.	3.3	38
5	Symbolic regression for scientific discovery: an application to wind speed forecasting. , 2021, , .		7
6	Grain and dietary fiber intake and bladder cancer risk: a pooled analysis of prospective cohort studies. American Journal of Clinical Nutrition, 2020, 112, 1252-1266.	2.2	21
7	Small data materials design with machine learning: When the average model knows best. Journal of Applied Physics, 2020, 128, .	1.1	17
8	Cross-domain neural-kernel networks. Pattern Recognition Letters, 2019, 125, 474-480.	2.6	10
9	Deep shared representation learning for weather elements forecasting. Knowledge-Based Systems, 2019, 179, 120-128.	4.0	48
10	Guest Editorial Special Issue on Neural Systems Engineering and Mathematical Modeling of Brain Dynamics Using ECoG/EEG/MEG Oscillations and Machine Learning Methods. IEEE Transactions on Neural Systems and Rehabilitation Engineering, 2019, 27, 335-336.	2.7	1
11	Deep neural-kernel blocks. Neural Networks, 2019, 116, 46-55.	3.3	15
12	Deep hybrid neural-kernel networks using random Fourier features. Neurocomputing, 2018, 298, 46-54.	3.5	26
13	Indefinite kernel spectral learning. Pattern Recognition, 2018, 78, 144-153.	5.1	7
14	Modelling the strip thickness in hot steel rolling mills using leastâ€squares support vector machines. Canadian Journal of Chemical Engineering, 2018, 96, 171-178.	0.9	27
15	Automated structural health monitoring based on adaptive kernel spectral clustering. Mechanical Systems and Signal Processing, 2017, 90, 64-78.	4.4	65
16	Regularized Semipaired Kernel CCA for Domain Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-15.	7.2	11
17	Multi-label semi-supervised learning using regularized kernel spectral clustering. , 2016, , .		6
18	Scalable Semi-supervised kernel spectral learning using random Fourier features. , 2016, , .		2

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19	Robust Support Vector Machines for Classification with Nonconvex and Smooth Losses. Neural Computation, 2016, 28, 1217-1247.	1.3	29
20	Estimating the unknown time delay in chemical processes. Engineering Applications of Artificial Intelligence, 2016, 55, 219-230.	4.3	24
21	Hierarchical semi-supervised clustering using KSC based model. , 2015, , .		0
22	Black-box modeling for temperature prediction in weather forecasting. , 2015, , .		9
23	Identifying intervals for hierarchical clustering using the Gershgorin circle theorem. Pattern Recognition Letters, 2015, 55, 1-7.	2.6	4
24	Learning solutions to partial differential equations using LS-SVM. Neurocomputing, 2015, 159, 105-116.	3.5	45
25	Incremental multi-class semi-supervised clustering regularized by Kalman filtering. Neural Networks, 2015, 71, 88-104.	3.3	15
26	Multiclass Semisupervised Learning Based Upon Kernel Spectral Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 720-733.	7.2	43
27	Large scale semi-supervised learning using KSC based model. , 2014, , .		9
28	SVD truncation schemes for fixed-size kernel models. , 2014, , .		2
29	Parameter estimation of delay differential equations: An integration-free LS-SVM approach. Communications in Nonlinear Science and Numerical Simulation, 2014, 19, 830-841.	1.7	27
30	Optimal reduced sets for sparse kernel spectral clustering. , 2014, , .		5
31	Non-parallel support vector classifiers with different loss functions. Neurocomputing, 2014, 143, 294-301.	3.5	38
32	LSSVM based initialization approach for parameter estimation of dynamical systems. Journal of Physics: Conference Series, 2014, 490, 012004.	0.3	2
33	Support vector machines with piecewise linear feature mapping. Neurocomputing, 2013, 117, 118-127.	3.5	30
34	Non-parallel semi-supervised classification based on kernel spectral clustering. , 2013, , .		6
35	LS-SVM based solution for delay differential equations. Journal of Physics: Conference Series, 2013, 410, 012041.	0.3	3
36	Parameter Estimation for Time Varying Dynamical Systems using Least Squares Support Vector Machines. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2012, 45, 1300-1305.	0.4	15

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37	LS-SVM approximate solution to linear time varying descriptor systems. Automatica, 2012, 48, 2502-2511.	3.0	30
38	Approximate Solutions to Ordinary Differential Equations Using Least Squares Support Vector Machines. IEEE Transactions on Neural Networks and Learning Systems, 2012, 23, 1356-1367.	7.2	58
39	A direct variable step block multistep method for solving general third-order ODEs. Numerical Algorithms, 2011, 57, 53-66.	1.1	26
40	A variable step implicit block multistep method for solving first-order ODEs. Journal of Computational and Applied Mathematics, 2010, 233, 2387-2394.	1.1	15