# Siamak Mehrkanoon

List of Publications by Year
in descending order

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

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | SmaAt-UNet: Precipitation nowcasting using a small attention-UNet architecture. Pattern Recognition Letters, 2021, 145, 178-186. | 2.6 | 179 |
| 2 | Automated structural health monitoring based on adaptive kernel spectral clustering. Mechanical Systems and Signal Processing, 2017, 90, 64-78. | 4.4 | 65 |
| 3 | 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 |
| 4 | Deep shared representation learning for weather elements forecasting. Knowledge-Based Systems, 2019, 179, 120-128. | 4.0 | 48 |
| 5 | Learning solutions to partial differential equations using LS-SVM. Neurocomputing, 2015, 159, 105-116. | 3.5 | 45 |
| 6 | Multiclass Semisupervised Learning Based Upon Kernel Spectral Clustering. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 720-733. | 7.2 | 43 |
| 7 | Non-parallel support vector classifiers with different loss functions. Neurocomputing, 2014, 143, 294-301. | 3.5 | 38 |
| 8 | Broad-UNet: Multi-scale feature learning for nowcasting tasks. Neural Networks, 2021, 144, 419-427. | 3.3 | 38 |
| 9 | LS-SVM approximate solution to linear time varying descriptor systems. Automatica, 2012, 48, 2502-2511. | 3.0 | 30 |
| 10 | Support vector machines with piecewise linear feature mapping. Neurocomputing, 2013, 117, 118-127. | 3.5 | 30 |
| 11 | Robust Support Vector Machines for Classification with Nonconvex and Smooth Losses. Neural Computation, 2016, 28, 1217-1247. | 1.3 | 29 |
| 12 | 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 |
| 13 | 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 |
| 14 | A direct variable step block multistep method for solving general third-order ODEs. Numerical Algorithms, 2011, 57, 53-66. | 1.1 | 26 |
| 15 | Deep hybrid neural-kernel networks using random Fourier features. Neurocomputing, 2018, 298, 46-54. | 3.5 | 26 |
| 16 | Estimating the unknown time delay in chemical processes. Engineering Applications of Artificial Intelligence, 2016, 55, 219-230. | 4.3 | 24 |
| 17 | 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 |
| 18 | Small data materials design with machine learning: When the average model knows best. Journal of Applied Physics, 2020, 128, . | 1.1 | 17 |

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|---|---------|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | Incremental multi-class semi-supervised clustering regularized by Kalman filtering. Neural Networks, 2015, 71, 88-104. | 3.3 | 15 |
| 23 | Deep neural-kernel blocks. Neural Networks, 2019, 116, 46-55. | 3.3 | 15 |
| 24 | Regularized Semipaired Kernel CCA for Domain Adaptation. IEEE Transactions on Neural Networks and Learning Systems, 2017, 29, 1-15. | 7.2 | 11 |
| 25 | Cross-domain neural-kernel networks. Pattern Recognition Letters, 2019, 125, 474-480. | 2.6 | 10 |
| 26 | Large scale semi-supervised learning using KSC based model. , 2014, , . | | 9 |
| 27 | Black-box modeling for temperature prediction in weather forecasting. , 2015, , . | | 9 |
| 28 | Indefinite kernel spectral learning. Pattern Recognition, 2018, 78, 144-153. | 5.1 | 7 |
| 29 | Symbolic regression for scientific discovery: an application to wind speed forecasting. , 2021, , . | | 7 |
| 30 | Non-parallel semi-supervised classification based on kernel spectral clustering. , 2013, , . | | 6 |
| 31 | Multi-label semi-supervised learning using regularized kernel spectral clustering. , 2016, , . | | 6 |
| 32 | Optimal reduced sets for sparse kernel spectral clustering. , 2014, , . | | 5 |
| 33 | Identifying intervals for hierarchical clustering using the Gershgorin circle theorem. Pattern Recognition Letters, 2015, 55, 1-7. | 2.6 | 4 |
| 34 | LS-SVM based solution for delay differential equations. Journal of Physics: Conference Series, 2013, 410, 012041. | 0.3 | 3 |
| 35 | SVD truncation schemes for fixed-size kernel models. , 2014, , . | | 2 |
| 36 | LSSVM based initialization approach for parameter estimation of dynamical systems. Journal of Physics: Conference Series, 2014, 490, 012004. | 0.3 | 2 |

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|---|---------|-----|-----------|
| 37 | Scalable Semi-supervised kernel spectral learning using random Fourier features. , 2016, , . | | 2 |
| 38 | A machine learning approach for the design of hyperbranched polymeric dispersing agents based on aliphatic polyesters for radiation‐curable inks. Polymer International, 2022, 71, 966-975. | 1.6 | 2 |
| 39 | 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 |
| 40 | Hierarchical semi-supervised clustering using KSC based model. , 2015, , . | | 0 |