

Theodore B Trafalis

List of Publications by Year in descending order

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76
papers

1,156
citations

471061

17
h-index

433756

31
g-index

80
all docs

80
docs citations

80
times ranked

1034
citing authors

#	ARTICLE	IF	CITATIONS
1	A robust optimization approach in a multi-objective closed-loop supply chain model under imperfect quality production. <i>Annals of Operations Research</i> , 2022, 319, 1479-1505.	2.6	3
2	An approximation to max min fairness in multi commodity networks. <i>Computational Management Science</i> , 2020, 17, 65-77.	0.8	2
3	Kernel classification using a linear programming approach. <i>Annals of Mathematics and Artificial Intelligence</i> , 2020, 88, 39-51.	0.9	0
4	Deep MLP-CNN Model Using Mixed-Data to Distinguish between COVID-19 and Non-COVID-19 Patients. <i>Symmetry</i> , 2020, 12, 1526.	1.1	77
5	Constructing an Efficient Machine Learning Model for Tornado Prediction. <i>International Journal of Information Technology and Decision Making</i> , 2020, 19, 1177-1187.	2.3	2
6	Imbalanced Learning with Parametric Linear Programming Support Vector Machine for Weather Data Application. <i>SN Computer Science</i> , 2020, 1, 1.	2.3	2
7	Logistic regression in large rare events and imbalanced data: A performance comparison of prior correction and weighting methods. <i>Computational Intelligence</i> , 2018, 34, 161-174.	2.1	26
8	2-Facility manifold location routing problem. <i>Optimization Letters</i> , 2017, 11, 389-405.	0.9	3
9	Natural gas storage valuation via least squares Monte Carlo and support vector regression. <i>Energy Systems</i> , 2017, 8, 815-855.	1.8	7
10	Thyroid Nodule Benigntly Prediction by Deep Feature Extraction. , 2017, , .		8
11	A Single-Facility Manifold Location Routing Problem with an Application to Supply Chain Management and Robotics. <i>Lecture Notes in Computer Science</i> , 2015, , 130-144.	1.0	0
12	A heuristic algorithm to solve the single-facility location routing problem on Riemannian surfaces. <i>Computational Management Science</i> , 2015, 12, 397-415.	0.8	8
13	SVM Classification of Uncertain Data Using Robust Multi-Kernel Methods. <i>Springer Proceedings in Mathematics and Statistics</i> , 2015, , 261-273.	0.1	1
14	Data selection using support vector regression. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 277-286.	1.9	5
15	A Bayesian beta kernel model for binary classification and online learning problems. <i>Statistical Analysis and Data Mining</i> , 2014, 7, 434-449.	1.4	3
16	Machine-learning classifiers for imbalanced tornado data. <i>Computational Management Science</i> , 2014, 11, 403-418.	0.8	18
17	Preface: Special volume on data mining and informatics. <i>Annals of Operations Research</i> , 2014, 216, 1-2.	2.6	5
18	Coordinate metrology for adaptive form verification. <i>Manufacturing Letters</i> , 2013, 1, 59-61.	1.1	1

#	ARTICLE	IF	CITATIONS
19	An incremental primal-dual method for nonlinear programming with special structure. Optimization Letters, 2013, 7, 51-62.	0.9	1
20	Time-series Analysis for Detecting Structure Changes and Suspicious Accounting Activities in Public Software Companies. Procedia Computer Science, 2013, 20, 466-471.	1.2	0
21	On-line SVM learning via an incremental primal-dual technique. Optimization Methods and Software, 2013, 28, 256-275.	1.6	3
22	Robust Supply Chain Network Design by Considering Demand-Side Uncertainty and Supply-Side Disruption. , 2013, , .		3
23	Rare events and imbalanced datasets: an overview. International Journal of Data Mining, Modelling and Management, 2011, 3, 375.	0.1	12
24	New kernel methods for asset pricing: application to natural gas price prediction. International Journal of Financial Markets and Derivatives, 2011, 2, 106.	0.2	3
25	Linear classification tikhonov regularization knowledge-based support vector machine for tornado forecasting. Computational Management Science, 2011, 8, 281-297.	0.8	0
26	Kernel logistic regression using truncated Newton method. Computational Management Science, 2011, 8, 415-428.	0.8	23
27	Mathematical framework for form inspection. International Journal of Advanced Manufacturing Technology, 2011, 52, 637-649.	1.5	1
28	Robust weighted kernel logistic regression in imbalanced and rare events data. Computational Statistics and Data Analysis, 2011, 55, 168-183.	0.7	102
29	Single-phase fluid flow classification via learning models. International Journal of General Systems, 2011, 40, 561-576.	1.2	5
30	The p-Centre machine for regression analysis. Optimization Methods and Software, 2010, 25, 171-183.	1.6	0
31	Support vector machine classification with noisy data: a second order cone programming approach. International Journal of General Systems, 2010, 39, 757-781.	1.2	14
32	Support vector machines for spatiotemporal tornado prediction. International Journal of General Systems, 2009, 38, 759-776.	1.2	19
33	Mathematical Foundations for Form Inspection and Adaptive Sampling. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2009, 131, .	1.3	4
34	A nonlinear multi-classification knowledge-based kernel machine. Computational Management Science, 2009, 6, 81-100.	0.8	0
35	A regularized pairwise multi-classification knowledge-based machine and applications. European Journal of Operational Research, 2009, 195, 924-941.	3.5	7
36	Quadratic programming formulations for classification and regression. Optimization Methods and Software, 2009, 24, 175-185.	1.6	4

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37	Missing Data Imputation Through Machine Learning Algorithms. , 2009, , 153-169.		21
38	Real-time prediction of order flowtimes using support vector regression. Computers and Operations Research, 2008, 35, 3489-3503.	2.4	49
39	Support vector regression for determining the minimum zone sphericity. International Journal of Advanced Manufacturing Technology, 2008, 35, 916-923.	1.5	11
40	Support vector regression to predict asphalt mix performance. International Journal for Numerical and Analytical Methods in Geomechanics, 2008, 32, 1989-1996.	1.7	25
41	Short term forecasting with support vector machines and application to stock price prediction. International Journal of General Systems, 2008, 37, 677-687.	1.2	73
42	Relevance Feedback in Content-based 3D Object Retrieval A Comparative Study. Computer-Aided Design and Applications, 2008, 5, 753-763.	0.4	17
43	Reinforcement Learning: An On-Line Framework Using Support Vectors. , 2007, , .		2
44	Regularization Based Classification Models. Neural Networks (IJCNN), International Joint Conference on, 2007, , .	0.0	0
45	Kernel principal component analysis and support vector machines for stock price prediction. IIE Transactions, 2007, 39, 629-637.	2.1	54
46	Support vector regression with noisy data: a second order cone programming approach. International Journal of General Systems, 2007, 36, 237-250.	1.2	14
47	Robust multiclass kernel-based classifiers. Computational Optimization and Applications, 2007, 38, 261-279.	0.9	3
48	Active Learning with Support Vector Machines for Tornado Prediction. Lecture Notes in Computer Science, 2007, , 1130-1137.	1.0	18
49	Regularized Knowledge-Based Kernel Machine. Lecture Notes in Computer Science, 2007, , 176-183.	1.0	0
50	Kernel methods for short-term portfolio management. Expert Systems With Applications, 2006, 30, 535-542.	4.4	22
51	Robust classification and regression using support vector machines. European Journal of Operational Research, 2006, 173, 893-909.	3.5	100
52	A hybrid model for exchange rate prediction. Decision Support Systems, 2006, 42, 1054-1062.	3.5	109
53	Learning networks for tornado detection. International Journal of General Systems, 2006, 35, 93-107.	1.2	2
54	Knowledge-Based Multiclass Support Vector Machines Applied to Vertical Two-Phase Flow. Lecture Notes in Computer Science, 2006, , 188-195.	1.0	7

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55	Detection of TORNADOS Using an Incremental Revised Support Vector Machine with Filters. Lecture Notes in Computer Science, 2006, , 506-513.	1.0	1
56	Learning networks in rainfall estimation. Computational Management Science, 2005, 2, 229-251.	0.8	5
57	Two-Phase Flow Regime Identification with a Multiclassification Support Vector Machine (SVM) Model. Industrial & Engineering Chemistry Research, 2005, 44, 4414-4426.	1.8	72
58	Differential Algebraic Equations in Primal Dual Interior Point Optimization Methods. AIP Conference Proceedings, 2004, , .	0.3	0
59	An Overview of Mean Field Theory in Combinatorial Optimization Problems. AIP Conference Proceedings, 2004, , .	0.3	0
60	Data Mining Techniques for Pattern Recognition: Tornado Signatures in Doppler Weather Radar Data. International Journal of Smart Engineering System Design, 2003, 5, 347-359.	0.2	4
61	Support Vector Regression for Determination of Minimum Zone. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2003, 125, 736-739.	1.3	25
62	Prediction of Rainfall from WSR-88D Radar Using Kernel-Based Methods. International Journal of Smart Engineering System Design, 2003, 5, 429-438.	0.2	5
63	Tornado Detection with Support Vector Machines. Lecture Notes in Computer Science, 2003, , 289-298.	1.0	16
64	From support vector machine learning to the determination of the minimum enclosing zone. Computers and Industrial Engineering, 2002, 42, 59-74.	3.4	22
65	Data mining techniques for improved WSR-88D rainfall estimation. Computers and Industrial Engineering, 2002, 43, 775-786.	3.4	32
66	An Analytic Center Machine. Machine Learning, 2002, 46, 203-223.	3.4	19
67	A novel metaheuristics approach for continuous global optimization. Journal of Global Optimization, 2002, 23, 171-190.	1.1	27
68	A Hybrid Scatter Genetic Tabu Approach for Continuous Global Optimization. Network Optimization Problems: Algorithms, Applications and Complexity, 2002, , 11-31.	0.1	2
69	A differential dynamic programming algorithm for differential games. Optimal Control Applications and Methods, 2001, 22, 17-36.	1.3	1
70	An interior point multiobjective programming approach for production planning with uncertain information. Computers and Industrial Engineering, 1999, 37, 631-648.	3.4	3
71	An interactive analytic center trade-off cutting plane algorithm for multiobjective linear programming. Computers and Industrial Engineering, 1999, 37, 649-669.	3.4	2
72	Interior Point Methods for Supervised Training of Artificial Neural Networks with Bounded Weights. Lecture Notes in Economics and Mathematical Systems, 1997, , 441-470.	0.3	3

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73	Deterministic and Stochastic Logarithmic Barrier Function Methods for Neural Network Training. Applied Optimization, 1997, , 529-574.	0.4	1
74	Neural network training via an affine scaling quadratic optimization algorithm. Neural Networks, 1996, 9, 475-481.	3.3	5
75	Constructing an Efficient Machine Learning Model for Tornado Prediction. SSRN Electronic Journal, 0, , .	0.4	3
76	Kernel Logistic Regression Using Truncated Newton Method. , 0, , 455-462.		2