Mao-xiang Chu

List of Publications by Year
in descending order

33 papers	426 citations	686830 13 h-index	752256 20 g-index
33 all docs	33 docs citations	33 times ranked	304 citing authors

#	Article	IF	Citations
1	Steel surface defects recognition based on multi-type statistical features and enhanced twin support vector machine. Chemometrics and Intelligent Laboratory Systems, 2017, 171, 140-150.	1.8	64
2	Multi-class classification method using twin support vector machines with multi-information for steel surface defects. Chemometrics and Intelligent Laboratory Systems, 2018, 176, 108-118.	1.8	31
3	Steel surface defect classification using multiple hyper-spheres support vector machine with additional information. Chemometrics and Intelligent Laboratory Systems, 2018, 172, 109-117.	1.8	31
4	Multi-class classification for steel surface defects based on machine learning with quantile hyper-spheres. Chemometrics and Intelligent Laboratory Systems, 2017, 168, 15-27.	1.8	30
5	Strip Steel Surface Defect Recognition Based on Novel Feature Extraction and Enhanced Least Squares Twin Support Vector Machine. ISIJ International, 2014, 54, 1638-1645.	0.6	23
6	Strip Steel Surface Defect Classification Method Based on Enhanced Twin Support Vector Machine. ISIJ International, 2014, 54, 119-124.	0.6	23
7	Invariant Feature Extraction Method Based on Smoothed Local Binary Pattern for Strip Steel Surface Defect. ISIJ International, 2015, 55, 1956-1962.	0.6	22
8	A multi-class classifier based on support vector hyper-spheres for steel plate surface defects. Chemometrics and Intelligent Laboratory Systems, 2019, 188, 70-78.	1.8	21
9	An Improved Nonparallel Support Vector Machine. IEEE Transactions on Neural Networks and Learning Systems, 2021, 32, 5129-5143.	7.2	20
10	Nonparallel support vector machine with large margin distribution for pattern classification. Pattern Recognition, 2020, 106, 107374.	5.1	20
11	End-Point Static Control of Basic Oxygen Furnace (BOF) Steelmaking Based on Wavelet Transform Weighted Twin Support Vector Regression. Complexity, 2019, 2019, 1-16.	0.9	18
12	Multi-class Classification Methods of Enhanced LS-TWSVM for Strip Steel Surface Defects. Journal of Iron and Steel Research International, 2014, 21, 174-180.	1.4	17
13	A Fast Detection Method for Region of Defect on Strip Steel Surface. ISIJ International, 2015, 55, 207-212.	0.6	15
14	Multi-class classification method for strip steel surface defects based on support vector machine with adjustable hyper-sphere. Journal of Iron and Steel Research International, 2018, 25, 706-716.	1.4	12
15	Twin support vector machine based on adjustable large margin distribution for pattern classification. International Journal of Machine Learning and Cybernetics, 2020, 11, 2371-2389.	2.3	12
16	A New Process Industry Fault Diagnosis Algorithm Based on Ensemble Improved Binary-Tree SVM. Chinese Journal of Electronics, 2015, 24, 258-262.	0.7	10
17	End-point dynamic control of basic oxygen furnace steelmaking based on improved unconstrained twin support vector regression. Journal of Iron and Steel Research International, 2020, 27, 42-54.	1.4	8
18	Twin pinball loss support vector hyper-sphere classifier for pattern recognition. , 2016, , .		7

#	Article	IF	Citations
19	Support vector machine with quantile hyper-spheres for pattern classification. PLoS ONE, 2019, 14, e0212361.	1.1	7
20	The Strip Steel Surface Defect Recognition Based on Multiple Support Vector Hyper-Sphere with Feature and Sample Weights. Steel Research International, 2016, 87, 1678-1685.	1.0	6
21	Steel surface defects recognition based on multi-label classifier with hyper-sphere support vector machine. , 2017, , .		6
22	Multi-class classification method for steel surface defects with feature noise. Journal of Iron and Steel Research International, 2021, 28, 303-315.	1.4	6
23	Unbalanced classification method using least squares support vector machine with sparse strategy for steel surface defects with label noise. Journal of Iron and Steel Research International, 2020, 27, 1407-1419.	1.4	5
24	Stochastic gradient support vector machine with local structural information for pattern recognition. International Journal of Machine Learning and Cybernetics, 2021, 12, 2237-2254.	2.3	4
25	Twin Support Vector Machine With Local Structural Information for Pattern Classification. IEEE Access, 2018, 6, 64237-64249.	2.6	3
26	Multi-class Classification Method Based on Support Vector Machine with Hyper-sphere for Steel surface Defects. , 2018, , .		3
27	Progresses of color image watermark methods. , 2011, , .		1
28	L2-Loss nonparallel bounded support vector machine for robust classification and its DCD-type solver. Applied Soft Computing Journal, 2022, , 109125.	4.1	1
29	Design of energy-saving control system on escalator based on LOGO! And frequency converter. , 2016, , .		0
30	Classification method based on global and local support vector machine. , 2018, , .		0
31	A nonparallel support vector machine with pinball loss for pattern classification. Journal of Intelligent and Fuzzy Systems, 2020, 39, 911-923.	0.8	0
32	Palmprint Feature Extraction Based on Improved Gabor Wavelet Combing LBP Operator. Lecture Notes in Computer Science, 2012, , 136-142.	1.0	0
33	End-point Static Prediction of Basic Oxygen Furnace (BOF) Steelmaking Based on INPSVR and WOA. , 2021, , .		0