Yoshinobu Kawahara

List of Publications by Year
in descending order

61	934	687363 13	610901 24
papers	citations	h-index	g-index

65	65	65	912
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Predicting behavior through dynamic modes in resting-state fMRI data. NeuroImage, 2022, 247, 118801.	4.2	8
2	Dynamic mode decomposition via convolutional autoencoders for dynamics modeling in videos. Computer Vision and Image Understanding, 2022, 216, 103355.	4.7	5
3	Discriminant Dynamic Mode Decomposition for Labeled Spatiotemporal Data Collections. SIAM Journal on Applied Dynamical Systems, 2022, 21, 1030-1058.	1.6	1
4	Koopman spectral analysis of elementary cellular automata. Chaos, 2021, 31, 103121.	2.5	1
5	Controlling Nonlinear Dynamical Systems with Linear Quadratic Regulator-based Policy Networks in Koopman space. , 2021, , .		2
6	Principal points analysis via p-median problem for binary data. Journal of Applied Statistics, 2020, 47, 1282-1297.	1.3	0
7	Prediction of Compound Bioactivities Using Heat-Diffusion Equation. Patterns, 2020, 1, 100140.	5.9	3
8	Physically-interpretable classification of biological network dynamics for complex collective motions. Scientific Reports, 2020, 10, 3005.	3.3	9
9	Cognition and interpersonal coordination of patients with schizophrenia who have sports habits. PLoS ONE, 2020, 15, e0241863.	2.5	9
10	Dynamic Mode Decomposition via Dictionary Learning for Foreground Modeling in Videos. , 2020, , .		0
11	Learning Multiple Nonlinear Dynamical Systems with Side Information. , 2020, , .		0
12	AN EFFICIENT BRANCH-AND-CUT ALGORITHM FOR SUBMODULAR FUNCTION MAXIMIZATION. Journal of the Operations Research Society of Japan, 2020, 63, 41-59.	0.2	2
13	Active Change-Point Detection. Transactions of the Japanese Society for Artificial Intelligence, 2020, 35, E-JA10_1-10.	0.1	0
14	Dynamic mode decomposition in vector-valued reproducing kernel Hilbert spaces for extracting dynamical structure among observables. Neural Networks, 2019, 117, 94-103.	5.9	19
15	Supervised dynamic mode decomposition via multitask learning. Pattern Recognition Letters, 2019, 122, 7-13.	4.2	12
16	Analysis of factors predicting who obtains a ball in basketball rebounding situations. International Journal of Performance Analysis in Sport, 2019, 19, 192-205.	1.1	9
17	Learning with Coherence Patterns in Multivariate Time-series Data via Dynamic Mode Decomposition. , 2019, , .		0
18	An Efficient Branch-and-Cut Algorithm for Approximately Submodular Function Maximization. , 2019, , .		1

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19	Data-driven spectral analysis for coordinative structures in periodic human locomotion. Scientific Reports, 2019, 9, 16755.	3.3	13
20	Interpretation Support System for Classification Patterns in Deep Learning with Texts. Journal of Japan Society for Fuzzy Theory and Intelligent Informatics, 2019, 31, 779-787.	0.0	0
21	Factorially Switching Dynamic Mode Decomposition for Koopman Analysis of Time-Variant Systems. , 2018, , .		3
22	Prediction and classification in equation-free collective motion dynamics. PLoS Computational Biology, 2018, 14, e1006545.	3.2	17
23	Automatically recognizing strategic cooperative behaviors in various situations of a team sport. PLoS ONE, 2018, 13, e0209247.	2.5	9
24	Highly biocompatible super-resolution fluorescence imaging using the fast photoswitching fluorescent protein Kohinoor and SPoD-ExPAN with L p-regularized image reconstruction. Microscopy (Oxford, England), 2018, 67, 89-98.	1.5	12
25	Subspace dynamic mode decomposition for stochastic Koopman analysis. Physical Review E, 2017, 96, 033310.	2.1	47
26	Representative Selection with Structured Sparsity. Pattern Recognition, 2017, 63, 268-278.	8.1	45
27	Koopman Spectral Kernels for Comparing Complex Dynamics: Application to Multiagent Sport Plays. Lecture Notes in Computer Science, 2017, , 127-139.	1.3	14
28	Sparse nonnegative dynamic mode decomposition. , 2017, , .		49
29	Structurally Regularized Non-negative Tensor Factorization for Spatio-Temporal Pattern Discoveries. Lecture Notes in Computer Science, 2017, , 582-598.	1.3	6
30	Bayesian Dynamic Mode Decomposition. , 2017, , .		45
31	A Novel Continuous and Structural VAR Modeling Approach and Its Application to Reactor Noise Analysis. ACM Transactions on Intelligent Systems and Technology, 2016, 7, 1-22.	4.5	3
32	Efficient Generalized Fused Lasso and Its Applications. ACM Transactions on Intelligent Systems and Technology, 2016, 7, 1-22.	4.5	21
33	Toxicogenomic prediction with group sparse regularization based on transcription factor network information. Fundamental Toxicological Sciences, 2015, 2, 161-170.	0.6	2
34	Skill grouping method: Mining and clustering skill differences from body movement BigData. , 2015, , .		5
35	Scatterplot layout for high-dimensional data visualization. Journal of Visualization, 2015, 18, 111-119.	1.8	14
36	Application of Continuous and Structural ARMA modeling for noise analysis of a BWR coupled core and plant instability event. Annals of Nuclear Energy, 2015, 75, 645-657.	1.8	3

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37	A fault detection technique for the steel manufacturing process based on a normal pattern library. IFAC-PapersOnLine, 2015, 48, 871-876.	0.9	2
38	Higher Order Fused Regularization for Supervised Learning with Grouped Parameters. Lecture Notes in Computer Science, 2015, , 577-593.	1.3	2
39	Toxicity prediction from toxicogenomic data based on class association rule mining. Toxicology Reports, 2014, 1, 1133-1142.	3.3	10
40	Multi-Task Feature Selection on Multiple Networks via Maximum Flows. , 2014, , .		7
41	A Novel Structural AR Modeling Approach for a Continuous Time Linear Markov System. , 2013, , .		1
42	Arrangement of Low-Dimensional Parallel Coordinate Plots for High-Dimensional Data Visualization. , 2013, , .		7
43	Active learning for noisy oracle via density power divergence. Neural Networks, 2013, 46, 133-143.	5.9	5
44	Simultaneous pursuit of out-of-sample performance and sparsity in index tracking portfolios. Computational Management Science, 2013, 10, 21-49.	1.3	49
45	Efficient network-guided multi-locus association mapping with graph cuts. Bioinformatics, 2013, 29, i171-i179.	4.1	52
46	Active Learning for Regression via Density Power Divergence. Transactions of the Japanese Society for Artificial Intelligence, 2013, 28, 13-21.	0.1	0
47	Sequential changeâ€point detection based on direct densityâ€ratio estimation. Statistical Analysis and Data Mining, 2012, 5, 114-127.	2.8	131
48	Separation of stationary and non-stationary sources with a generalized eigenvalue problem. Neural Networks, 2012, 33, 7-20.	5.9	45
49	Submodular fractional programming for balanced clustering. Pattern Recognition Letters, 2011, 32, 235-243.	4.2	17
50	Analyzing relationships among ARMA processes based on non-Gaussianity of external influences. Neurocomputing, 2011, 74, 2212-2221.	5.9	14
51	Learning Non-linear Dynamical Systems by Alignment of Local Linear Models. Transactions of the Japanese Society for Artificial Intelligence, 2011, 26, 638-648.	0.1	0
52	Learning Non-linear Dynamical Systems by Alignment of Local Linear Models. , 2010, , .		0
53	An experimental comparison of linear non-Gaussian causal discovery methods and their variants. , 2010, , .		7
54	Stationary Subspace Analysis as a Generalized Eigenvalue Problem. Lecture Notes in Computer Science, 2010, , 422-429.	1.3	8

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55	Change-Point Detection in Time-Series Data by Direct Density-Ratio Estimation. , 2009, , .		95
56	Change-Point Detection Algorithms based on Subspace Methods. Transactions of the Japanese Society for Artificial Intelligence, 2008, 23, 76-85.	0.1	0
57	Change-Point Detection in Time-Series Data Based on Subspace Identification. , 2007, , .		59
58	Spacecraft Diagnosis Method Using Dynamic Bayesian Networks. Transactions of the Japanese Society for Artificial Intelligence, 2006, 21, 45-54.	0.1	5
59	Visualization of Spacecraft Data Based on Interdependency Between Changing Points in Time Series. , 2006, , .		0
60	Autonomous Recognition of Multiple Cable Topology with Image. , 2006, , .		2
61	Telemetry-mining: A Machine Learning Approach to Anomaly Detection and Fault Diagnosis for Space Systems. , 0, , .		25