Shinjae Yoo

List of Publications by Year
in descending order

48 papers	1,724 citations	686830 13 h-index	610482 24 g-index
49 all docs	49 docs citations	49 times ranked	2638 citing authors

#	Article	IF	Citations
1	Challenges and opportunities in quantum machine learning for high-energy physics. Nature Reviews Physics, 2022, 4, 143-144.	11.9	10
2	Hierarchical Analysis of Halo Center in Cosmology. Lecture Notes in Computer Science, 2021, , 671-684.	1.0	0
3	Flight data anomaly detection and diagnosis with variable association change. , 2021, , .		1
4	Online data analysis and reduction: An important Co-design motif for extreme-scale computers. International Journal of High Performance Computing Applications, 2021, 35, 617-635.	2.4	6
5	Application of quantum machine learning using the quantum variational classifier method to high energy physics analysis at the LHC on IBM quantum computer simulator and hardware with 10 qubits. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 125003.	1.4	31
6	Application of quantum machine learning using the quantum kernel algorithm on high energy physics analysis at the LHC. Physical Review Research, 2021, 3, .	1.3	35
7	Complex imaging of phase domains by deep neural networks. IUCrJ, 2021, 8, 12-21.	1.0	27
8	Three-dimensional coherent X-ray diffraction imaging via deep convolutional neural networks. Npj Computational Materials, 2021, 7, .	3.5	20
9	Real-Time Distribution State Estimation with Massive ÂµPMU Streaming Data. , 2020, , .		0
10	Machine-Learning X-Ray Absorption Spectra to Quantitative Accuracy. Physical Review Letters, 2020, 124, 156401.	2.9	65
11	Diagnosis and prognosis of Alzheimer's disease using brain morphometry and white matter connectomes. NeuroImage: Clinical, 2019, 23, 101859.	1.4	24
12	Ultrathin Amorphous Titania on Nanowires: Optimization of Conformal Growth and Elucidation of Atomic-Scale Motifs. Nano Letters, 2019, 19, 3457-3463.	4.5	14
13	Bi-directional Causal Graph Learning through Weight-Sharing and Low-Rank Neural Network. , 2019, , .		3
14	Seasonal differences in trace element concentrations and distribution in Spartina alterniflora root tissue. Chemosphere, 2018, 204, 359-370.	4.2	8
15	Multimodal biological analysis using NLP and expression profile. , 2018, , .		3
16	Detailed Performance Analysis of Distributed Tensorflow on a GPU Cluster using Deep Learning Algorithms. , 2018, , .		4
17	KBase: The United States Department of Energy Systems Biology Knowledgebase. Nature Biotechnology, 2018, 36, 566-569.	9.4	955
18	Towards Real Time Quantitative Analysis of Supported Nanoparticle Ensemble Evolution Investigated by Environmental TEM. Microscopy and Microanalysis, 2018, 24, 540-541.	0.2	2

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19	Why wait? Let us start computing while the data is still on the wire. Future Generation Computer Systems, 2018, 89, 563-574.	4.9	8
20	Nanoscale measurement of trace element distributions in Spartina alterniflora root tissue during dormancy. Scientific Reports, 2017, 7, 40420.	1.6	10
21	Automated image acquisition and analysis of beam sensitive samples. Microscopy and Microanalysis, 2017, 23, 1788-1789.	0.2	0
22	Machine learning aided prediction of family history of depression. , 2017, , .		4
23	Computing Just What You Need: Online Data Analysis and Reduction at Extreme Scales. Lecture Notes in Computer Science, 2017, , 3-19.	1.0	22
24	Large‐scale atlas of microarray data reveals the distinct expression landscape of different tissues in Arabidopsis. Plant Journal, 2016, 86, 472-480.	2.8	39
25	Analysis of nanoparticle growth in environmental transmission electron microscopy. , 2016, , .		2
26	Streaming spectral clustering. , 2016, , .		13
27	Streaming data analysis on the wire. , 2016, , .		5
28	Synchrotron X-ray microfluorescence measurement of metal distributions in <i>Phragmites australis</i> root system in the Yangtze River intertidal zone. Journal of Synchrotron Radiation, 2016, 23, 937-946.	1.0	3
29	Diverse Power Iteration Embeddings: Theory and Practice. IEEE Transactions on Knowledge and Data Engineering, 2016, 28, 2606-2620.	4.0	4
30	Sensor network based solar forecasting using a local vector autoregressive ridge framework. , 2016, , .		5
31	Density-Aware Clustering Based on Aggregated Heat Kernel and Its Transformation. ACM Transactions on Knowledge Discovery From Data, 2015, 9, 1-35.	2.5	1
32	3D cloud detection and tracking system for solar forecast using multiple sky imagers. Solar Energy, 2015, 118, 496-519.	2.9	129
33	Solar irradiance forecasting using multi-layer cloud tracking and numerical weather prediction. , 2015, , .		4
34	Prior knowledge driven Granger causality analysis on gene regulatory network discovery. BMC Bioinformatics, 2015, 16, 273.	1.2	16
35	Unsupervised Feature Selection on Data Streams. , 2015, , .		23
36	3D cloud detection and tracking for solar forecast using multiple sky imagers. , 2014, , .		7

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37	Diffusion-based clustering analysis of coherent X-ray scattering patterns of self-assembled nanoparticles. , 2014, , .		2
38	Diverse Power Iteration Embeddings and Its Applications. , 2014, , .		7
39	Noise-Resistant Unsupervised Feature Selection via Multi-perspective Correlations. , 2014, , .		2
40	Physics-Based Anomaly Detection Defined on Manifold Space. ACM Transactions on Knowledge Discovery From Data, 2014, 9, 1-39.	2.5	13
41	Cloud motion estimation for short term solar irradiation prediction. , 2013, , .		37
42	Solar irradiance forecast system based on geostationary satellite. , 2013, , .		19
43	Correlation and local feature based cloud motion estimation. , 2012, , .		9
44	A New Anomaly Detection Algorithm Based on Quantum Mechanics. , 2012, , .		9
45	Local anomaly descriptor. , 2012, , .		11
46	A Robust Clustering Algorithm Based on Aggregated Heat Kernel Mapping. , 2011, , .		13
47	Personalized Email Prioritization Based on Content and Social Network Analysis. IEEE Intelligent Systems, 2010, 25, 12-18.	4.0	16
48	Mining social networks for personalized email prioritization. , 2009, , .		80