

Jeyarajan Thiyagalingam

List of Publications by Year in descending order

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Version: 2024-02-01

45
papers

711
citations

623734

14
h-index

610901

24
g-index

48
all docs

48
docs citations

48
times ranked

670
citing authors

#	ARTICLE	IF	CITATIONS
1	Keyhole fluctuation and pore formation mechanisms during laser powder bed fusion additive manufacturing. Nature Communications, 2022, 13, 1170.	12.8	98
2	Energy Efficient Beamforming Design for MISO Non-Orthogonal Multiple Access Systems. IEEE Transactions on Communications, 2019, 67, 4117-4131.	7.8	56
3	Machine learning and big scientific data. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190054.	3.4	43
4	Scientific machine learning benchmarks. Nature Reviews Physics, 2022, 4, 413-420.	26.6	43
5	Energy-aware software: Challenges, opportunities and strategies. Journal of Computational Science, 2013, 4, 444-449.	2.9	37
6	Breaking the GPU programming barrier with the auto-parallelising SAC compiler. , 2011, , .		32
7	Is Morton layout competitive for large two-dimensional arrays yet?. Concurrency Computation Practice and Experience, 2006, 18, 1509-1539.	2.2	28
8	Design and initial performance of a high-level unstructured mesh framework on heterogeneous parallel systems. Parallel Computing, 2013, 39, 669-692.	2.1	25
9	Glyph-Based Video Visualization for Semen Analysis. IEEE Transactions on Visualization and Computer Graphics, 2015, 21, 980-993.	4.4	23
10	Energy Efficiency Optimization for Secure Transmission in MISO Cognitive Radio Network With Energy Harvesting. IEEE Access, 2019, 7, 126234-126252.	4.2	23
11	Terrain-influenced incremental watchtower expansion for wildfire detection. Science of the Total Environment, 2019, 654, 164-176.	8.0	21
12	Spectral-Energy Efficiency Trade-Off-Based Beamforming Design for MISO Non-Orthogonal Multiple Access Systems. IEEE Transactions on Wireless Communications, 2020, 19, 6593-6606.	9.2	21
13	Assessment of protein-protein interfaces in cryo-EM derived assemblies. Nature Communications, 2021, 12, 3399.	12.8	20
14	Visual Multiplexing. Computer Graphics Forum, 2014, 33, 241-250.	3.0	19
15	Correlation Filter Selection for Visual Tracking Using Reinforcement Learning. IEEE Transactions on Circuits and Systems for Video Technology, 2020, 30, 192-204.	8.3	19
16	Echo state kernel recursive least squares algorithm for machine condition prediction. Mechanical Systems and Signal Processing, 2018, 111, 68-86.	8.0	18
17	Exploiting Deep Learning for Secure Transmission in an Underlay Cognitive Radio Network. IEEE Transactions on Vehicular Technology, 2021, 70, 726-741.	6.3	15
18	Benchmarking and scalability of machine-learning methods for photometric redshift estimation. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4847-4856.	4.4	15

#	ARTICLE	IF	CITATIONS
19	Entropy-based active learning of graph neural network surrogate models for materials properties. <i>Journal of Chemical Physics</i> , 2021, 155, 174116.	3.0	14
20	Deep learning methods for obtaining photometric redshift estimations from images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 1696-1709.	4.4	10
21	Visualizing Cardiovascular Magnetic Resonance (CMR) imagery: Challenges and opportunities. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 115, 349-358.	2.9	9
22	Low-complexity adaptive broadband beamforming based on the non-uniform decomposition method. <i>Signal Processing</i> , 2018, 151, 66-75.	3.7	9
23	Building interactive sentence-aware representation based on generative language model for community question answering. <i>Neurocomputing</i> , 2020, 389, 93-107.	5.9	8
24	Deploying the Big Data Science Center at the Shanghai Synchrotron Radiation Facility: the first superfacility platform in China. <i>Machine Learning: Science and Technology</i> , 2021, 2, 035003.	5.0	8
25	Discovering the building blocks of dark matter halo density profiles with neural networks. <i>Physical Review D</i> , 2022, 105, .	4.7	8
26	MILP Formulation for Aircraft Path Planning in Persistent Surveillance. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2020, 56, 3796-3811.	4.7	7
27	Interpretable, calibrated neural networks for analysis and understanding of inelastic neutron scattering data. <i>Journal of Physics Condensed Matter</i> , 2021, 33, 194006.	1.8	7
28	Speed-adaptive multi-copy routing for vehicular delay tolerant networks. <i>Future Generation Computer Systems</i> , 2019, 94, 392-407.	7.5	6
29	An Interpretable Deep Architecture for Similarity Learning Built Upon Hierarchical Concepts. <i>IEEE Transactions on Image Processing</i> , 2020, 29, 3911-3926.	9.8	6
30	Efficiency Near the Edge: Increasing the Energy Efficiency of FFTs on GPUs for Real-Time Edge Computing. <i>IEEE Access</i> , 2021, 9, 18167-18182.	4.2	6
31	Improving the Performance of Morton Layout by Array Alignment and Loop Unrolling. <i>Lecture Notes in Computer Science</i> , 2004, , 241-257.	1.3	6
32	MapReduce particle filtering with exact resampling and deterministic runtime. <i>Eurasip Journal on Advances in Signal Processing</i> , 2017, 2017, 71.	1.7	5
33	The Effect of Topology-Aware Process and Thread Placement on Performance and Energy. <i>Lecture Notes in Computer Science</i> , 2013, , 357-371.	1.3	5
34	Advanced Grid Programming with Components: A Biometric Identification Case Study. , 2008, , .		4
35	Parallel Simulation for Parameter Estimation of Optical Tissue Properties. <i>Lecture Notes in Computer Science</i> , 2010, , 51-62.	1.3	4
36	On the Usage of GPUs for Efficient Motion Estimation in Medical Image Sequences. <i>International Journal of Biomedical Imaging</i> , 2011, 2011, 1-15.	3.9	4

#	ARTICLE	IF	CITATIONS
37	A Multilane Tracking Algorithm Using IPDA with Intensity Feature. Sensors, 2021, 21, 461.	3.8	4
38	Minimizing Associativity Conflicts in Morton Layout. Lecture Notes in Computer Science, 2006, , 1082-1088.	1.3	4
39	Multi-rotor Drone Micro-Doppler Simulation Incorporating Genuine Motor Speeds and Validation with L-band Staring Radar. , 2022, , .		4
40	Complexity Plots. Computer Graphics Forum, 2013, 32, 111-120.	3.0	3
41	Fast and reliable human action recognition in video sequences by sequential analysis. , 2017, , .		3
42	A Novel Method for Sea-Land Clutter Separation Using Regularized Randomized and Kernel Ridge Neural Networks. Sensors, 2020, 20, 6491.	3.8	3
43	A Parallel Retrodiction Algorithm for Large-Scale Multitarget Tracking. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 5-21.	4.7	3
44	Evaluating Auto-Vectorizing Compilers through Objective Withdrawal of Useful Information. Transactions on Architecture and Code Optimization, 2019, 16, 1-23.	2.0	3
45	Segmenting Sound Waves to Support Phonocardiogram Analysis: The PCGseg Approach. Lecture Notes in Computer Science, 2018, , 100-112.	1.3	1