

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	Deep learning methods for obtaining photometric redshift estimations from images. Monthly Notices of the Royal Astronomical Society, 2022, 512, 1696-1709.	4.4	10
2	Keyhole fluctuation and pore formation mechanisms during laser powder bed fusion additive manufacturing. Nature Communications, 2022, 13, 1170.	12.8	98
3	Scientific machine learning benchmarks. Nature Reviews Physics, 2022, 4, 413-420.	26.6	43
4	Multi-rotor Drone Micro-Doppler Simulation Incorporating Genuine Motor Speeds and Validation with L-band Staring Radar. , 2022, , .		4
5	Discovering the building blocks of dark matter halo density profiles with neural networks. Physical Review D, 2022, 105, .	4.7	8
6	Exploiting Deep Learning for Secure Transmission in an Underlay Cognitive Radio Network. IEEE Transactions on Vehicular Technology, 2021, 70, 726-741.	6.3	15
7	Efficiency Near the Edge: Increasing the Energy Efficiency of FFTs on GPUs for Real-Time Edge Computing. IEEE Access, 2021, 9, 18167-18182.	4.2	6
8	A Multilane Tracking Algorithm Using IPDA with Intensity Feature. Sensors, 2021, 21, 461.	3.8	4
9	A Parallel Retrodiction Algorithm for Large-Scale Multitarget Tracking. IEEE Transactions on Aerospace and Electronic Systems, 2021, 57, 5-21.	4.7	3
10	Interpretable, calibrated neural networks for analysis and understanding of inelastic neutron scattering data. Journal of Physics Condensed Matter, 2021, 33, 194006.	1.8	7
11	Deploying the Big Data Science Center at the Shanghai Synchrotron Radiation Facility: the first superfacility platform in China. Machine Learning: Science and Technology, 2021, 2, 035003.	5.0	8
12	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
13	Assessment of protein-protein interfaces in cryo-EM derived assemblies. Nature Communications, 2021, 12, 3399.	12.8	20
14	Entropy-based active learning of graph neural network surrogate models for materials properties. Journal of Chemical Physics, 2021, 155, 174116.	3.0	14
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	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
17	A Novel Method for Sea-Land Clutter Separation Using Regularized Randomized and Kernel Ridge Neural Networks. Sensors, 2020, 20, 6491.	3.8	3
18	Machine learning and big scientific data. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190054.	3.4	43

#	ARTICLE	IF	CITATIONS
19	Building interactive sentence-aware representation based on generative language model for community question answering. <i>Neurocomputing</i> , 2020, 389, 93-107.	5.9	8
20	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
21	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
22	Energy Efficiency Optimization for Secure Transmission in MISO Cognitive Radio Network With Energy Harvesting. <i>IEEE Access</i> , 2019, 7, 126234-126252.	4.2	23
23	Energy Efficient Beamforming Design for MISO Non-Orthogonal Multiple Access Systems. <i>IEEE Transactions on Communications</i> , 2019, 67, 4117-4131.	7.8	56
24	Speed-adaptive multi-copy routing for vehicular delay tolerant networks. <i>Future Generation Computer Systems</i> , 2019, 94, 392-407.	7.5	6
25	Terrain-influenced incremental watchtower expansion for wildfire detection. <i>Science of the Total Environment</i> , 2019, 654, 164-176.	8.0	21
26	Evaluating Auto-Vectorizing Compilers through Objective Withdrawal of Useful Information. <i>Transactions on Architecture and Code Optimization</i> , 2019, 16, 1-23.	2.0	3
27	Echo state kernel recursive least squares algorithm for machine condition prediction. <i>Mechanical Systems and Signal Processing</i> , 2018, 111, 68-86.	8.0	18
28	Low-complexity adaptive broadband beamforming based on the non-uniform decomposition method. <i>Signal Processing</i> , 2018, 151, 66-75.	3.7	9
29	Segmenting Sound Waves to Support Phonocardiogram Analysis: The PCGseg Approach. <i>Lecture Notes in Computer Science</i> , 2018, , 100-112.	1.3	1
30	Fast and reliable human action recognition in video sequences by sequential analysis. , 2017, , .		3
31	MapReduce particle filtering with exact resampling and deterministic runtime. <i>Eurasip Journal on Advances in Signal Processing</i> , 2017, 2017, 71.	1.7	5
32	Glyph-Based Video Visualization for Semen Analysis. <i>IEEE Transactions on Visualization and Computer Graphics</i> , 2015, 21, 980-993.	4.4	23
33	Visual Multiplexing. <i>Computer Graphics Forum</i> , 2014, 33, 241-250.	3.0	19
34	Visualizing Cardiovascular Magnetic Resonance (CMR) imagery: Challenges and opportunities. <i>Progress in Biophysics and Molecular Biology</i> , 2014, 115, 349-358.	2.9	9
35	Design and initial performance of a high-level unstructured mesh framework on heterogeneous parallel systems. <i>Parallel Computing</i> , 2013, 39, 669-692.	2.1	25
36	Energy-aware software: Challenges, opportunities and strategies. <i>Journal of Computational Science</i> , 2013, 4, 444-449.	2.9	37

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37	Complexity Plots. Computer Graphics Forum, 2013, 32, 111-120.	3.0	3
38	The Effect of Topology-Aware Process and Thread Placement on Performance and Energy. Lecture Notes in Computer Science, 2013, , 357-371.	1.3	5
39	On the Usage of GPUs for Efficient Motion Estimation in Medical Image Sequences. International Journal of Biomedical Imaging, 2011, 2011, 1-15.	3.9	4
40	Breaking the GPU programming barrier with the auto-parallelising SAC compiler. , 2011, , .		32
41	Parallel Simulation for Parameter Estimation of Optical Tissue Properties. Lecture Notes in Computer Science, 2010, , 51-62.	1.3	4
42	Advanced Grid Programming with Components: A Biometric Identification Case Study. , 2008, , .		4
43	Is Morton layout competitive for large two-dimensional arrays yet?. Concurrency Computation Practice and Experience, 2006, 18, 1509-1539.	2.2	28
44	Minimizing Associativity Conflicts in Morton Layout. Lecture Notes in Computer Science, 2006, , 1082-1088.	1.3	4
45	Improving the Performance of Morton Layout by Array Alignment and Loop Unrolling. Lecture Notes in Computer Science, 2004, , 241-257.	1.3	6