Ravishankar K Iyer

List of Publications by Year
in descending order

| 35 papers | 1,989 citations | 687363

13 h-index | 580821

25 g-index |
|---|---|---|---|
| 37 all docs | 37 docs citations | 37 times ranked | 3315 citing authors |

#	Article	IF	Citations
1	Data-Driven Application-Oriented Reliability Model of a High-Performance Computing System. IEEE Transactions on Reliability, 2022, 71, 603-615.	4.6	2
2	Stool microbiota are superior to saliva in distinguishing cirrhosis and hepatic encephalopathy using machine learning. Journal of Hepatology, 2022, 76, 600-607.	3.7	12
3	Telogator: a method for reporting chromosome-specific telomere lengths from long reads. Bioinformatics, 2022, 38, 1788-1793.	4.1	2
4	Deep learning identifies brain structures that predict cognition and explain heterogeneity in cognitive aging. NeuroImage, 2022, 251, 119020.	4.2	9
5	Sex is associated with differences in gut microbial composition andÂfunction in hepatic encephalopathy. Journal of Hepatology, 2021, 74, 80-88.	3.7	10
6	PB-Motifâ€"A Method for Identifying Gene/Pseudogene Rearrangements With Long Reads: An Application to CYP21A2 Genotyping. Frontiers in Genetics, 2021, 12, 716586.	2.3	5
7	Exogene: A performant workflow for detecting viral integrations from paired-end next-generation sequencing data. PLoS ONE, 2021, 16, e0250915.	2.5	3
8	Prediction of short-term antidepressant response using probabilistic graphical models with replication across multiple drugs and treatment settings. Neuropsychopharmacology, 2021, 46, 1272-1282.	5.4	14
9	Low Predictability of Readmissions and Death Using Machine Learning in Cirrhosis. American Journal of Gastroenterology, 2021, 116, 336-346.	0.4	17
10	The Mystery of the Failing Jobs: Insights from Operational Data from Two University-Wide Computing Systems. , 2020, , .		8
11	Challenges and Opportunities in the Detection of Safety-Critical Cyberphysical Attacks. Computer, 2020, 53, 26-37.	1.1	7
12	Pharmacogenomicsâ€Driven Prediction of Antidepressant Treatment Outcomes: A Machineâ€Learning Approach With Multiâ€trial Replication. Clinical Pharmacology and Therapeutics, 2019, 106, 855-865.	4.7	69
13	Predicting Short-term MCI-to-AD Progression Using Imaging, CSF, Genetic Factors, Cognitive Resilience, and Demographics. Scientific Reports, 2019, 9, 2235.	3.3	51
14	Recommendations for performance optimizations when using GATK3.8 and GATK4. BMC Bioinformatics, 2019, 20, 557.	2.6	25
15	RAINCOAT: Randomization of Network Communication in Power Grid Cyber Infrastructure to Mislead Attackers. IEEE Transactions on Smart Grid, 2019, 10, 4893-4906.	9.0	16
16	ASAP: <underline>A</underline>ccelerated <underline>S</underline>hort-Read <underline>A</underline>lignment on <underline>P</underline>rogrammable Hardware. IEEE Transactions on Computers, 2019, 68, 331-346.	3.4	21
17	Beta-defensin 1, aryl hydrocarbon receptor and plasma kynurenine in major depressive disorder: metabolomics-informed genomics. Translational Psychiatry, 2018, 8, 10.	4.8	59
18	Runtime Semantic Security Analysis to Detect and Mitigate Control-Related Attacks in Power Grids. IEEE Transactions on Smart Grid, 2018, 9, 163-178.	9.0	68

#	Article	IF	Citations
19	Resiliency of HPC Interconnects: A Case Study of Interconnect Failures and Recovery in Blue Waters. IEEE Transactions on Dependable and Secure Computing, 2018, 15, 915-930.	5.4	10
20	Impact of Malicious SCADA Commands on Power Gridsâ€™ Dynamic Responses. , 2018, , .		1
21	Machine Learning Helps Identify New Drug Mechanisms in Triple-Negative Breast Cancer. IEEE Transactions on Nanobioscience, 2018, 17, 251-259.	3.3	8
22	AVFI: Fault Injection for Autonomous Vehicles. , 2018, , .		43
23	Augmentation of Physician Assessments with Multi-Omics Enhances Predictability of Drug Response: A Case Study of Major Depressive Disorder. IEEE Computational Intelligence Magazine, 2018, 13, 20-31.	3.2	34
24	Seizure Forecasting and the Preictal State in Canine Epilepsy. International Journal of Neural Systems, 2017, 27, 1650046.	5.2	40
25	Inter-ictal Seizure Onset Zone localization using unsupervised clustering and Bayesian Filtering. , 2017, , .		5
26	Model-based unsupervised learning informs metformin-induced cell-migration inhibition through an AMPK-independent mechanism in breast cancer. Oncotarget, 2017, 8, 27199-27215.	1.8	15
27	Unsupervised single-cell analysis in triple-negative breast cancer: A case study. , 2016, , .		4
28	F-DETA: A Framework for Detecting Electricity Theft Attacks in Smart Grids. , 2016, , .		34
29	Simulating Next-Generation Sequencing Datasets from Empirical Mutation and Sequencing Models. PLoS ONE, 2016, 11, e0167047.	2.5	59
30	Measuring and Understanding Extreme-Scale Application Resilience: A Field Study of 5,000,000 HPC Application Runs. , 2015, , .		45
31	LogDiver. , 2015, , .		16
32	Software-Defined Networking for Smart Grid Resilience. , 2015, , .		117
33	Big Data: Astronomical or Genomical?. PLoS Biology, 2015, 13, e1002195.	5.6	995
34	Lessons Learned from the Analysis of System Failures at Petascale: The Case of Blue Waters. , 2014, , .		145
35	A Performance Evaluation of Sequence Alignment Software in Virtualized Environments. , 2014, , .		19