Prasad Calyam

List of Publications by Year
in descending order

94 papers	1,247 citations

516710
16 h-index	

526287
27 g-index	

96 all docs	96 docs citations

96 times ranked	1179 citing authors

#	Article	IF	Citations
1	The winding road of requesting healthcare data for analytics purposes: using the one-interview mental model method for improving services of health data governance and big data request processes. Journal of Business Analytics, 2023, 6, 1-18.	2.7	4
2	Science gateway adoption using plug‑in middleware for evidence‑based healthcare data management. Concurrency Computation Practice and Experience, 2023, 35, .	2.2	0
3	Modeling and Defense of Social Virtual Reality Attacks Inducing Cybersickness. IEEE Transactions on Dependable and Secure Computing, 2022, 19, 4127-4144.	5.4	15
4	Lightweight and Privacy-Preserving Remote User Authentication for Smart Homes. IEEE Access, 2022, 10, 176-190.	4.2	17
5	Learning-based Multi-Drone Network Edge Orchestration for Video Analytics. , 2022, , .		2
6	Recommender‑as‑a‑service with chatbot guided domain‑science knowledge discovery in a science gateway. Concurrency Computation Practice and Experience, 2021, 33, e6080.	2.2	6
7	Measuring success for a future vision: Defining impact in science gateways/virtual research environments. Concurrency Computation Practice and Experience, 2021, 33, e6099.	2.2	12
8	vSocial: a cloud-based system for social virtual reality learning environment applications in special education. Multimedia Tools and Applications, 2021, 80, 16827-16856.	3.9	12
9	Multi-Cloud Performance and Security Driven Federated Workflow Management. IEEE Transactions on Cloud Computing, 2021, 9, 240-257.	4.4	20
10	On QoE-Oriented Cloud Service Orchestration for Application Providers. IEEE Transactions on Services Computing, 2021, 14, 1194-1208.	4.6	0
11	Evidence-Based Recommender System for a COVID-19 Publication Analytics Service. IEEE Access, 2021, 9, 79400-79415.	4.2	14
12	Domain-specific Topic Model for Knowledge Discovery in Computational and Data-Intensive Scientific Communities. IEEE Transactions on Knowledge and Data Engineering, 2021, , 1-1.	5.7	5
13	Trust Model for Efficient Honest Broker based Healthcare Data Access and Processing. , 2021, , .		4
14	Fuzzy-Engineered Multi-Cloud Resource Brokering for Data-intensive Applications. , 2021, , .		0
15	HonestChain: Consortium blockchain for protected data sharing in health information systems. Peer-to-Peer Networking and Applications, 2021, 14, 3012-3028.	3.9	20
16	Cyber Range for Research-Inspired Learning of "Attack Defense by Pretense" Principle and Practice. IEEE Transactions on Learning Technologies, 2021, 14, 322-337.	3.2	7
17	Network-based Active Defense for Securing Cloud-based Healthcare Data Processing Pipelines. , 2021, , .		3
18	Predicting carbon nanotube forest attributes and mechanical properties using simulated images and deep learning. Npj Computational Materials, 2021, 7, .	8.7	19

#	ARTICLE	IF	CITATIONS
19	The Role of Vidura Chatbot in the Diffusion of KnowCOVID-19 Gateway. Human-Machine Communication, 2021, 3, 47-64.	2.4	2
20	A Networked Social Virtual Reality Learning Environment Platform for Special Education. , 2021, , .		0
21	DroneCOCoNet: Learning-based edge computation offloading and control networking for drone video analytics. Future Generation Computer Systems, 2021, 125, 247-262.	7.5	19
22	Rule-based Adaptations to Control Cybersickness in Social Virtual Reality Learning Environments. , 2021, , .		2
23	Obstacle-Aware and Energy-Efficient Multi-Drone Coordination and Networking for Disaster Response. , 2021, , .		6
24	Measurement of Utility in User Access of COVID-19 Literature via AI-powered Chatbot. , 2021, , .		0
25	Edge Cloud Offloading Algorithms. ACM Computing Surveys, 2020, 52, 1-23.	23.0	112
26	REBATE: A REpulsive-BAsed Traffic Engineering protocol for dynamic scale-free networks. Future Generation Computer Systems, 2020, 108, 624-635.	7.5	2
27	Predictive Cyber Foraging for Visual Cloud Computing in Large-Scale IoT Systems. IEEE Transactions on Network and Service Management, 2020, 17, 2380-2395.	4.9	6
28	Impact of False Data Injection Attacks on Deep Learning Enabled Predictive Analytics. , 2020, , .		17
29	Frequency-Minimal Utility-Maximal Moving Target Defense Against DDoS in SDN-Based Systems. IEEE Transactions on Network and Service Management, 2020, 17, 890-903.	4.9	19
30	Attack Trees for Security and Privacy in Social Virtual Reality Learning Environments. , 2020, , .		17
31	Energy-aware Dynamic Computation Offloading for Video Analytics in Multi-UAV Systems. , 2020, , .		7
32	A Near Optimal Reliable Orchestration Approach for Geo-Distributed Latency-Sensitive SFCs. IEEE Transactions on Network Science and Engineering, 2020, 7, 2730-2745.	6.4	4
33	Fully Decentralized Multi-Party Consent Management for Secure Sharing of Patient Health Records. IEEE Access, 2020, 8, 225777-225791.	4.2	31
34	Security-aware Resource Brokering for Bioinformatics Workflows across Federated Multi-cloud Infrastructures. , 2020, , .		1
35	Enhancing Network-edge Connectivity and Computation Security in Drone Video Analytics. , 2020, , .		0
36	A Constrained Shortest Path Scheme for Virtual Network Service Management. IEEE Transactions on Network and Service Management, 2019, 16, 127-142.	4.9	14

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37	A Near Optimal Reliable Composition Approach for Geo-Distributed Latency-Sensitive Service Chains. , 2019, , .		21
38	Recommending heterogeneous resources for science gateway applications based on custom templates composition. Future Generation Computer Systems, 2019, 100, 281-297.	7.5	9
39	Security, Privacy and Safety Risk Assessment for Virtual Reality Learning Environment Applications. , 2019, , .		29
40	OnTimeURB: Multi-Cloud Resource Brokering for Bioinformatics Workflows. , 2019, , .		8
41	Multi-Cloud Performance and Security-driven Brokering for Bioinformatics Workflows. , 2019, , .		0
42	Policy-Based Function-Centric Computation Offloading for Real-Time Drone Video Analytics. , 2019, , .		12
43	Intelligent defense using pretense against targeted attacks in cloud platforms. Future Generation Computer Systems, 2019, 93, 609-626.	7.5	15
44	Community cloud architecture to improve use accessibility with security compliance in health big data applications. , 2019, , .		5
45	AGRA: AI-augmented geographic routing approach for IoT-based incident-supporting applications. Future Generation Computer Systems, 2019, 92, 1051-1065.	7.5	27
46	Security Middleground for Resource Protection in Measurement Infrastructure-as-a-Service. IEEE Transactions on Services Computing, 2019, 12, 621-638.	4.6	2
47	Real-time geotracking and cataloging of mass casualty incident markers in a search and rescue training simulation: Pilot study. American Journal of Disaster Medicine, 2019, 14, 89-95.	0.3	1
48	Increasing protected data accessibility for age-related cataract research using a semi-automated honest broker. Journal for Modeling in Ophthalmology, 2019, 2, 115-132.	0.1	3
49	ADON: Application-Driven Overlay Network-as-a-Service for Data-Intensive Science. IEEE Transactions on Cloud Computing, 2018, 6, 640-655.	4.4	5
50	Social Plane for Recommenders in Network Performance Expectation Management. IEEE Transactions on Network and Service Management, 2018, 15, 97-111.	4.9	3
51	Flexible IoT security middleware for end-to-end cloudâ€"fog communication. Future Generation Computer Systems, 2018, 87, 688-703.	7.5	49
52	Dolus. , 2018, , .		11
53	Fuzzy-Based Conversational Recommender for Data-intensive Science Gateway Applications. , 2018, , .		9
54	Domain-specific Topic Model for Knowledge Discovery through Conversational Agents in Data Intensive Scientific Communities. , 2018, , .		9

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55	Predictive analytics for fog computing using machine learning and GENI. , 2018, , .		11
56	Energy-Aware Mobile Edge Computing and Routing for Low-Latency Visual Data Processing. IEEE Transactions on Multimedia, 2018, 20, 2562-2577.	7.2	53
57	A tabu search algorithm for a capacitated clustering problem. International Journal of Operational Research, 2018, 33, 387.	0.2	1
58	Incident-Supporting Visual Cloud Computing Utilizing Software-Defined Networking. IEEE Transactions on Circuits and Systems for Video Technology, 2017, 27, 182-197.	8.3	32
59	Wireless Mesh networking Protocol for sustained throughput in edge computing. , 2017, , .		11
60	End-to-End IoT Security Middleware for Cloud-Fog Communication. , 2017, , .		41
61	Augmented Resource Allocation Framework for Disaster Response Coordination in Mobile Cloud Environments. , 2017, , .		2
62	Toward an ElderCare Living Lab for Sensor-Based Health Assessment and Physical Therapy. IEEE Cloud Computing, 2017, 4, 30-39.	3.9	5
63	Energy-Aware Mobile Edge Computing for Low-Latency Visual Data Processing. , 2017, , .		18
64	Advanced Manufacturing Collaboration in a Cloud-based App Marketplace. , 2017, , .		2
65	Contextual geotracking service of incident markers in disaster search-and-rescue operations. , 2016, , .		0
66	Network-Wide Anomaly Event Detection and Diagnosis With perfSONAR. IEEE Transactions on Network and Service Management, 2016, 13, 666-680.	4.9	22
67	Network measurement recommendations for performance bottleneck correlation analysis. , 2016, , .		3
68	1600: REAL-TIME TRACKING OF MASS CASUALTY INCIDENT MARKERS IN A SEARCH-AND-RESCUE TRAINING SIMULATION. Critical Care Medicine, 2016, 44, 475-475.	0.9	0
69	Panacea's Cloud: Augmented reality for mass casualty disaster incident triage and co-ordination. , 2016, , .		10
70	Intelligent Dashboard for augmented reality based incident command response co-ordination. , 2016, , .		22
71	Frequency-minimal moving target defense using software-defined networking. , 2016, , .		26
72	Synchronous Big Data analytics for personalized and remote physical therapy. Pervasive and Mobile Computing, 2016, 28, 3-20.	3.3	26

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73	PCA-based network-wide correlated anomaly event detection and diagnosis. , 2015, , .		9
74	Advances in management of multimedia services. International Journal of Network Management, 2015, 25, 203-204.	2.2	0
75	Panacea's Glass: Mobile Cloud Framework for Communication in Mass Casualty Disaster Triage. , 2015, , .		16
76	Benchmarking in virtual desktops for end-to-end performance traceability. , 2015, , .		4
77	Resource Defragmentation Using Market-Driven Allocation in Virtual Desktop Clouds. , 2015, , .		3
78	Research challenges in future multi-domain network performance measurement and monitoring. Computer Communication Review, 2015, 45, 29-34.	1.8	6
79	In-the-Know: Recommendation Framework for City-Supported Hybrid Cloud Services. , 2014, , .		5
80	Ontology-Based Semantic Priority Scheduling for Multi-domain Active Measurements. Journal of Network and Systems Management, 2014, 22, 331-365.	4.9	8
81	Topology-Aware Correlated Network Anomaly Event Detection and Diagnosis. Journal of Network and Systems Management, 2014, 22, 208-234.	4.9	14
82	VDC-Analyst: Design and verification of virtual desktop cloud resource allocations. Computer Networks, 2014, 68, 110-122.	5.1	41
83	Simulation as a service (SMaaS): a cloud-based framework to support the educational use of scientific software. International Journal of Cloud Computing, 2014, 3, 177.	0.3	14
84	Defragmentation of Resources in Virtual Desktop Clouds for Cost-Aware Utility-Optimal Allocation. , 2011, , .		20
85	Enabling performance intelligence for application adaptation in the Future Internet. Journal of Communications and Networks, 2011, 13, 591-601.	2.6	19
86	Utility-directed resource allocation in virtual desktop clouds. Computer Networks, 2011, 55, 4112-4130.	5.1	32
87	Enabling Data-Intensive Biomedical Science: Gaps, Opportunities, and Challenges. OMICS A Journal of Integrative Biology, 2011, 15, 231-233.	2.0	2
88	Evaluation of gatekeeper proxies for firewall traversal in secure videoconferencing systems. International Journal of Internet Protocol Technology, 2010, 5, 32.	0.2	2
89	VDBench: A Benchmarking Toolkit for Thin-Client Based Virtual Desktop Environments. , 2010, , .		38
90	Semantic scheduling of active measurements for meeting network monitoring objectives. , 2010, , .		7

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91	OnTimeDetect: Dynamic Network Anomaly Notification in perfSONAR Deployments. , 2010, , .		16
92	RICE: A Reliable and Efficient Remote Instrumentation Collaboration Environment. Advances in Multimedia, 2008, 2008, 1-17.	0.4	8
93	Orchestration of Network-Wide Active Measurements for Supporting Distributed Computing Applications. IEEE Transactions on Computers, 2007, 56, 1629-1642.	3.4	15
94	A â€œGAP-modelâ€•based framework for online VVoIP QoE measurement. Journal of Communications and Networks, 2007, 9, 446-456.	2.6	40