Rajkummar Buyya

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

740 papers	46,331 citations	92 h-index	201 g-index
810 ext. papers	56,152 ext. citations	4.2 avg, IF	8.49 L-index

#	Paper	IF	Citations
740	QoS-aware placement of microservices-based IoT applications in Fog computing environments. *Future Generation Computer Systems*, **2022**, 131, 121-136	7.5	6
739	Artificial Intelligence-based Internet of Things for Industry 5.0. *Internet of Things*, **2022**, 3-45	1.3	6
738	A Topology-Aware Scheduling Strategy for Distributed Stream Computing System. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2022**, 132-147	0.2	
737	High-availability clusters: A taxonomy, survey, and future directions. *Journal of Systems and Software*, **2022**, 187, 111208	3.3	0
736	Deadline-aware and energy-efficient IoT task scheduling in fog computing systems: A semi-greedy approach. *Journal of Network and Computer Applications*, **2022**, 201, 103333	7.9	0
735	Performance and Cost-Efficient Spark Job Scheduling Based on Deep Reinforcement Learning in Cloud Computing Environments. *IEEE Transactions on Parallel and Distributed Systems*, **2022**, 33, 1695-1710	3.7	5
734	A Data Stream Prediction Strategy for Elastic Stream Computing Systems. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2022**, 148-162	0.2	
733	A Machine Learning-Based Elastic Strategy for Operator Parallelism in a Big Data Stream Computing System. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2022**, 3-19	0.2	
732	A blockchain-based Fog-oriented lightweight framework for smart public vehicular transportation systems. *Computer Networks*, **2022**, 203, 108676	5.4	3
731	HealthCloud: A system for monitoring health status of heart patients using machine learning and cloud computing. *Internet of Things (Netherlands)*, **2022**, 17, 100485	6.9	5
730	MQDS: An energy saving scheduling strategy with diverse QoS constraints towards reconfigurable cloud storage systems. *Future Generation Computer Systems*, **2022**, 129, 252-268	7.5	1
729	A multi-level collaborative framework for elastic stream computing systems. *Future Generation Computer Systems*, **2022**, 128, 117-131	7.5	0
728	DoSP: A Deadline-Aware Dynamic Service Placement Algorithm for Workflow-Oriented IoT Applications in Fog-Cloud Computing Environments. *Lecture Notes on Data Engineering and Communications Technologies*, **2022**, 21-47	0.4	2
727	Energy and latency aware mobile task assignment for green cloudlets. *Simulation Modelling Practice and Theory*, **2022**, 102531	3.9	0
726	Service composition in dynamic environments: A systematic review and future directions. *Journal of Systems and Software*, **2022**, 188, 111290	3.3	1
725	Securing the future internet of things with post-quantum cryptography. *Security and Privacy*, **2022**, 5,	1.8	3
724	Towards simulating the constraint-based nature-inspired smart scheduling in energy intelligent buildings. *Simulation Modelling Practice and Theory*, **2022**, 102550	3.9	1

723	State space model and queuing network based Cloud Resource Provisioning for Meshed Web Systems. *IEEE Transactions on Parallel and Distributed Systems*, **2022**, 1-1	3.7	
722	iFogSim2: An extended iFogSim simulator for mobility, clustering, and microservice management in edge and fog computing environments. *Journal of Systems and Software*, **2022**, 190, 111351	3.3	7
721	Machine learning (ML)-centric resource management in cloud computing: A review and future directions. *Journal of Network and Computer Applications*, **2022**, 204, 103405	7.9	3
720	Software-Defined Multi-domain Tactical Networks: Foundations and Future Directions **2021**, 183-227		0
719	A Distributed Deep Reinforcement Learning Technique for Application Placement in Edge and Fog Computing Environments. *IEEE Transactions on Mobile Computing*, **2021**, 1-1	4.6	8
718	Edge In-Network Computing Meets Blockchain: A Multi-Domain Heterogeneous Resource Trust Management Architecture. *IEEE Network*, **2021**, 35, 50-57	11.4	1
717	A Deep Reinforcement Learning Approach to Resource Management in Hybrid Clouds Harnessing Renewable Energy and Task Scheduling **2021**,		2
716	Optimal Geospatial Query Placement in Cloud. *Smart Innovation, Systems and Technologies*, **2021**, 335-344	4.5	1
715	START: Straggler Prediction and Mitigation for Cloud Computing Environments using Encoder LSTM Networks. *IEEE Transactions on Services Computing*, **2021**, 1-1	4.8	1
714	Geospatial Edge-Fog Computing: A Systematic Review, Taxonomy, and Future Directions **2021**, 47-69		2
713	Green-Aware Mobile Edge Computing for IoT: Challenges, Solutions and Future Directions **2021**, 145-164		0
712	Introduction to Mobile Edge Computing **2021**, 3-19		2
711	Dynamic Parallel Flow Algorithms with Centralized Scheduling for Load Balancing Improvement in Cloud Data Center Networks. *IEEE Transactions on Cloud Computing*, **2021**, 1-1	3.3	0
710	CAMIG: Concurrency-Aware Live Migration Management of Multiple Virtual Machines in SDN-enabled Clouds. *IEEE Transactions on Parallel and Distributed Systems*, **2021**, 1-1	3.7	0
709	Simulating Fog Computing Applications Using iFogSim Toolkit **2021**, 565-590		1
708	HUNTER: AI based holistic resource management for sustainable cloud computing. *Journal of Systems and Software*, **2021**, 184, 111124	3.3	3
707	Workload forecasting and energy state estimation in cloud data centers: ML-centric approach. *Future Generation Computer Systems*, **2021**,	7.5	7
706	Social Interaction-Enabled Industrial Internet of Things for Predictive Maintenance. *Advances in Intelligent Systems and Computing*, **2021**, 661-673	0.4	2

705	iGateLink: A Gateway Library for Linking IoT, Edge, Fog, and Cloud Computing Environments. *Smart Innovation, Systems and Technologies*, **2021**, 11-19	0.5	3
704	Mobile Cloud Computing and Wireless Sensor Networks: A review, integration architecture, and future directions. *IET Networks*, **2021**, 10, 141	2.8	3
703	Blockchain-Enhanced Fair Task Scheduling for Cloud-Fog-Edge Coordination Environments: Model and Algorithm. *Security and Communication Networks*, **2021**, 2021, 1-18	1.9	1
702	CGP: Cluster-based gossip protocol for dynamic resource environment in cloud. *Simulation Modelling Practice and Theory*, **2021**, 108, 102275	3.9	10
701	Security-SLA-guaranteed service function chain deployment in cloud-fog computing networks. *Cluster Computing*, **2021**, 24, 2479-2494	2.1	3
700	Uncertainty-aware Decisions in Cloud Computing. *ACM Computing Surveys*, **2021**, 54, 1-30	13.4	10
699	FollowMe@LS: Electricity price and source aware resource management in geographically distributed heterogeneous datacenters. *Journal of Systems and Software*, **2021**, 175, 110907	3.3	1
698	Fog-Integrated Cloud Architecture enabled multi-attribute combinatorial reverse auctioning framework. *Simulation Modelling Practice and Theory*, **2021**, 109, 102307	3.9	3
697	A Reinforcement Learning Approach to Reduce Serverless Function Cold Start Frequency **2021**,		5
696	Blockchain-based trust management in cloud computing systems: a taxonomy, review and future directions. *Journal of Cloud Computing: Advances, Systems and Applications*, **2021**, 10,	3.2	9
695	SLA-aware multiple migration planning and scheduling in SDN-NFV-enabled clouds. *Journal of Systems and Software*, **2021**, 176, 110943	3.3	6
694	FogBus2 **2021**,		5
693	SDN Enabled QoE and Security Framework for Multimedia Applications in 5G Networks. *ACM Transactions on Multimedia Computing, Communications and Applications*, **2021**, 17, 1-29	3.4	3
692	Secure Healthcare Monitoring Sensor Cloud With Attribute-Based Elliptical Curve Cryptography. *International Journal of Cloud Applications and Computing*, **2021**, 11, 1-18	3.1	7
691	. *IEEE Transactions on Cloud Computing*, **2021**, 9, 14-26	3.3	47
690	Internet of Health Things (IoHT) for personalized health care using integrated edge-fog-cloud network. *Journal of Ambient Intelligence and Humanized Computing*, **2021**, 12, 943-959	3.7	24
689	An Application Placement Technique for Concurrent IoT Applications in Edge and Fog Computing Environments. *IEEE Transactions on Mobile Computing*, **2021**, 20, 1298-1311	4.6	69
688	GRVMP: A Greedy Randomized Algorithm for Virtual Machine Placement in Cloud Data Centers. *IEEE Systems Journal*, **2021**, 15, 2571-2582	4.3	13

687	Hedonic Pricing of Cloud Computing Services. *IEEE Transactions on Cloud Computing*, **2021**, 9, 182-196	3.3	16
686	A study on the evaluation of HPC microservices in containerized environment. *Concurrency Computation Practice and Experience*, **2021**, 33, 1-1	1.4	3
685	Self directed learning based workload forecasting model for cloud resource management. *Information Sciences*, **2021**, 543, 345-366	7.7	17
684	A drone-based networked system and methods for combating coronavirus disease (COVID-19) pandemic. *Future Generation Computer Systems*, **2021**, 115, 1-19	7.5	104
683	. *IEEE Internet of Things Journal*, **2021**, 8, 3665-3677	10.7	5
682	A Volunteer-Supported Fog Computing Environment for Delay-Sensitive IoT Applications. *IEEE Internet of Things Journal*, **2021**, 8, 3822-3830	10.7	13
681	ADRL: A Hybrid Anomaly-Aware Deep Reinforcement Learning-Based Resource Scaling in Clouds. *IEEE Transactions on Parallel and Distributed Systems*, **2021**, 32, 514-526	3.7	8
680	BigDataSDNSim: A simulator for analyzing big data applications in software-defined cloud data centers. *Software - Practice and Experience*, **2021**, 51, 893-920	2.5	5
679	Online cloud resource prediction via scalable window waveform sampling on classified workloads. *Future Generation Computer Systems*, **2021**, 117, 338-358	7.5	4
678	Thermal Prediction for Efficient Energy Management of Clouds Using Machine Learning. *IEEE Transactions on Parallel and Distributed Systems*, **2021**, 32, 1044-1056	3.7	11
677	K-ear: Extracting data access periodic characteristics for energy-aware data clustering and storing in cloud storage systems. *Concurrency Computation Practice and Experience*, **2021**, 33, e6096	1.4	0
676	HeporCloud: An energy and performance efficient resource orchestrator for hybrid heterogeneous cloud computing environments. *Journal of Network and Computer Applications*, **2021**, 173, 102869	7.9	8
675	A Reinforcement Learning Based Approach to Identify Resource Bottlenecks for Multiple Services Interactions in Cloud Computing Environments. *Lecture Notes of the Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering*, **2021**, 58-74	0.2	1
674	Inverse Queuing Model based Feedback Control for Elastic Container Provisioning of Web Systems in Kubernetes. *IEEE Transactions on Computers*, **2021**, 1-1	2.5	4
673	Gaussian Distribution-Based Machine Learning Scheme for Anomaly Detection in Healthcare Sensor Cloud. *International Journal of Cloud Applications and Computing*, **2021**, 11, 52-72	3.1	11
672	iFaaSBus: A Security and Privacy based Lightweight Framework for Serverless Computing using IoT and Machine Learning. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	7
671	Automated Controller Placement for Software-Defined Networks to Resist DDoS Attacks. *Computers, Materials and Continua*, **2021**, 68, 3147-3165	3.9	3
670	OP-MLB: An Online VM Prediction based Multi-objective Load Balancing Framework for Resource Management at Cloud Datacenter. *IEEE Transactions on Cloud Computing*, **2021**, 1-1	3.3	10

669	Industrial Internet of Things (IIoT) Applications of Edge and Fog Computing: A Review and Future Directions. *Advances in Information Security*, **2021**, 293-325	0.7	11
668	SLA-based Scheduling of Spark Jobs in Hybrid Cloud Computing Environments. *IEEE Transactions on Computers*, **2021**, 1-1	2.5	2
667	LYRIC: Deadline and Budget Aware Spatio-Temporal Query Processing in Cloud. *IEEE Transactions on Services Computing*, **2021**, 1-1	4.8	4
666	BFIM: Performance Measurement of a Blockchain Based Hierarchical Tree Layered Fog-IoT Microservice Architecture. *IEEE Access*, **2021**, 9, 106655-106674	3.5	9
665	Special Issue on Methods and Infrastructures for Data Mining at the Edge of Internet of Things. *IEEE Internet of Things Journal*, **2021**, 8, 10220-10221	10.7	2
664	Metaheuristics for scheduling of heterogeneous tasks in cloud computing environments: Analysis, performance evaluation, and future directions. *Simulation Modelling Practice and Theory*, **2021**, 111, 102353	3.9	6
663	A scheduling-based dynamic fog computing framework for augmenting resource utilization. *Simulation Modelling Practice and Theory*, **2021**, 111, 102336	3.9	10
662	MLPAM: A Machine Learning and Probabilistic Analysis Based Model for Preserving Security and Privacy in Cloud Environment. *IEEE Systems Journal*, **2021**, 15, 4248-4259	4.3	6
661	OpenPATH: Application aware high-performance software-defined switching framework. *Journal of Network and Computer Applications*, **2021**, 193, 103196	7.9	1
660	CONFRONT: Cloud-fog-dew based monitoring framework for COVID-19 management. *Internet of Things (Netherlands)*, **2021**, 16, 100459	6.9	2
659	MUD-based Behavioral Profiling Security Framework for Software-defined IoT Networks. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	2
658	. *IEEE Transactions on Industrial Informatics*, **2021**, 1-1	11.9	5
657	Reliability-Enhanced Task Offloading in Mobile Edge Computing Environments. *IEEE Internet of Things Journal*, **2021**, 1-1	10.7	2
656	QoS-aware service provisioning in fog computing. *Journal of Network and Computer Applications*, **2020**, 165, 102674	7.9	14
655	Dynamic Management of Traffic Signals through Social IoT. *Procedia Computer Science*, **2020**, 171, 1908-1916	1.5	5
654	**2020**,		2
653	A novel energy-aware resource management technique using joint VM and container consolidation approach for green computing in cloud data centers. *Simulation Modelling Practice and Theory*, **2020** , 104, 102127	3.9	23
652	. *IEEE Transactions on Services Computing*, **2020**, 1-1	4.8	17

651	ARC: Anomaly-aware Robust Cloud-integrated IoT service composition based on uncertainty in advertised quality of service values. *Journal of Systems and Software*, **2020**, 164, 110557	3.3	10
650	Shared data-aware dynamic resource provisioning and task scheduling for data intensive applications on hybrid clouds using Aneka. *Future Generation Computer Systems*, **2020**, 106, 595-606	7.5	7
649	Data Allocation Mechanism for Internet-of-Things Systems With Blockchain. *IEEE Internet of Things Journal*, **2020**, 7, 3509-3522	10.7	22
648	Ensemble learning based predictive framework for virtual machine resource request prediction. *Neurocomputing*, **2020**, 397, 20-30	5.4	11
647	Cost-efficient dynamic scheduling of big data applications in apache spark on cloud. *Journal of Systems and Software*, **2020**, 162, 110515	3.3	19
646	Utilization-prediction-aware virtual machine consolidation approach for energy-efficient cloud data centers. *Journal of Parallel and Distributed Computing*, **2020**, 139, 99-109	4.4	31
645	. *IEEE Access*, **2020**, 8, 70375-70386	3.5	21
644	BlockSDN: Blockchain-as-a-Service for Software Defined Networking in Smart City Applications. *IEEE Network*, **2020**, 34, 83-91	11.4	63
643	WattsApp: Power-Aware Container Scheduling **2020**,		2
642	Resource Management and Scheduling in Distributed Stream Processing Systems. *ACM Computing Surveys*, **2020**, 53, 1-41	13.4	16
641	Multiple Workflows Scheduling in Multi-tenant Distributed Systems. *ACM Computing Surveys*, **2020**, 53, 1-39	13.4	17
640	A Cost-Efficient Container Orchestration Strategy in Kubernetes-Based Cloud Computing Infrastructures with Heterogeneous Resources. *ACM Transactions on Internet Technology*, **2020**, 20, 1-24	3.8	18
639	DATESSO **2020**,		4
638	Application Management in Fog Computing Environments. *ACM Computing Surveys*, **2020**, 53, 1-43	13.4	50
637	Internet of Things (IoT) and Cloud Computing Enabled Disaster Management. *Scalable Computing and Communications*, **2020**, 273-298	0.2	0
636	Device Discovery Techniques for Industrial Internet of Things Through Predictive Analytic Mechanism. *Advances in Intelligent Systems and Computing*, **2020**, 76-89	0.4	
635	Data Access Management System in Azure Blob Storage and AWS S3 Multi-Cloud Storage Environments. *Advances in Information Security, Privacy, and Ethics Book Series*, **2020**, 130-147	0.3	
634	Dynamic redirection of real-time data streams for elastic stream computing. *Future Generation Computer Systems*, **2020**, 112, 193-208	7.5	1

633	Cloud Resource Provisioning and Bottleneck Eliminating for Meshed Web Systems **2020**,		2
632	Artificial Intelligence (AI)-Centric Management of Resources in Modern Distributed Computing Systems **2020**,		3
631	Container Orchestration With Cost-Efficient Autoscaling in Cloud Computing Environments. *Advances in Information Security, Privacy, and Ethics Book Series*, **2020**, 190-213	0.3	2
630	Trust Management for Service-Oriented SIoT Systems **2020**,		1
629	Software-Defined Network (SDN) Data Plane Security: Issues, Solutions, and Future Directions **2020** , 341-387		26
628	Feasibility of Fog Computing. *Scalable Computing and Communications*, **2020**, 127-146	0.2	4
627	Context-Oriented User-Centric Search System for the IoT Based on Fuzzy Clustering. *Communications in Computer and Information Science*, **2020**, 343-356	0.3	2
626	MARIO: A spatio-temporal data mining framework on Google Cloud to explore mobility dynamics from taxi trajectories. *Journal of Network and Computer Applications*, **2020**, 164, 102692	7.9	14
625	HealthFog: An ensemble deep learning based Smart Healthcare System for Automatic Diagnosis of Heart Diseases in integrated IoT and fog computing environments. *Future Generation Computer Systems*, **2020**, 104, 187-200	7.5	208
624	Cloud Pricing Models. *ACM Computing Surveys*, **2020**, 52, 1-36	13.4	20
623	Context-Aware Placement of Industry 4.0 Applications in Fog Computing Environments. *IEEE Transactions on Industrial Informatics*, **2020**, 16, 7004-7013	11.9	31
622	Modeling cloud business customers□utility functions. *Future Generation Computer Systems*, **2020**, 105, 737-753	7.5	8
621	Spatio-Fog: A green and timeliness-oriented fog computing model for geospatial query resolution. *Simulation Modelling Practice and Theory*, **2020**, 100, 102043	3.9	9
620	Agri-Info: Cloud Based Autonomic System for Delivering Agriculture as a Service. *Internet of Things (Netherlands)*, **2020**, 9, 100131	6.9	17
619	CRUPA: collusion resistant user revocable public auditing of shared data in cloud. *Journal of Cloud Computing: Advances, Systems and Applications*, **2020**, 9,	3.2	2
618	CLAWER: Context-aware Cloud-Fog based Workflow Management Framework for Health Emergency Services **2020**,		4
617	SDVADC: Secure Deduplication and Virtual Auditing of Data in Cloud. *Procedia Computer Science*, **2020**, 171, 2225-2234	1.6	1
616	Energy Efficient Algorithms based on VM Consolidation for Cloud Computing: Comparisons and Evaluations **2020**,		14

615	Performance-aware deployment of streaming applications in distributed stream computing systems. *International Journal of Bio-Inspired Computation*, **2020**, 15, 52	2.9	7
614	QuickDedup: Efficient VM deduplication in cloud computing environments. *Journal of Parallel and Distributed Computing*, **2020**, 139, 18-31	4.4	10
613	DTCMS: Dynamic traffic congestion management in Social Internet of Vehicles (SIoV). *Internet of Things (Netherlands)*, **2020**, 16, 100311	6.9	4
612	A Privacy-Preserving Mobile and Fog Computing Framework to Trace and Prevent COVID-19 Community Transmission. *IEEE Journal of Biomedical and Health Informatics*, **2020**, 24, 3564-3575	7.2	28
611	Unequal-interval based loosely coupled control method for auto-scaling heterogeneous cloud resources for web applications. *Concurrency Computation Practice and Experience*, **2020**, 32, e5926	1.4	3
610	A Self-adaptive Approach for Managing Applications and Harnessing Renewable Energy for Sustainable Cloud Computing. *IEEE Transactions on Sustainable Computing*, **2020**, 1-1	3.5	12
609	A Data-Driven Frequency Scaling Approach for Deadline-aware Energy Efficient Scheduling on Graphics Processing Units (GPUs) **2020**,		1
608	Dynamic Scheduling for Stochastic Edge-Cloud Computing Environments using A3C learning and Residual Recurrent Neural Networks. *IEEE Transactions on Mobile Computing*, **2020**, 1-1	4.6	35
607	Heterogeneous Job Allocation Scheduler for Hadoop MapReduce Using Dynamic Grouping Integrated Neighboring Search. *IEEE Transactions on Cloud Computing*, **2020**, 8, 193-206	3.3	13
606	STAR: SLA-aware Autonomic Management of Cloud Resources. *IEEE Transactions on Cloud Computing*, **2020**, 8, 1040-1053	3.3	42
605	A Hybrid Bio-Inspired Algorithm for Scheduling and Resource Management in Cloud Environment. *IEEE Transactions on Services Computing*, **2020**, 13, 3-15	4.8	32
604	Availability-Aware Virtual Cluster Allocation in Bandwidth-Constrained Datacenters. *IEEE Transactions on Services Computing*, **2020**, 13, 425-436	4.8	12
603	Failure Management for Reliable Cloud Computing: A Taxonomy, Model, and Future Directions. *Computing in Science and Engineering*, **2020**, 22, 52-63	1.5	21
602	Mobi-IoST: Mobility-Aware Cloud-Fog-Edge-IoT Collaborative Framework for Time-Critical Applications. *IEEE Transactions on Network Science and Engineering*, **2020**, 7, 2271-2285	4.9	47
601	Managing renewable energy and carbon footprint in multi-cloud computing environments. *Journal of Parallel and Distributed Computing*, **2020**, 135, 191-202	4.4	19
600	Profit-aware application placement for integrated Fog–cloud computing environments. *Journal of Parallel and Distributed Computing*, **2020**, 135, 177-190	4.4	43
599	A Cost-Efficient Auto-Scaling Algorithm for Large-Scale Graph Processing in Cloud Environments with Heterogeneous Resources. *IEEE Transactions on Software Engineering*, **2020**, 1-1	3.5	0
598	Joint Energy-QoE Efficient Content Delivery Networks Using Real-Time Energy Management. *IEEE Systems Journal*, **2020**, 14, 927-938	4.3	4

597	An energy-aware multi-sensor geo-fog paradigm for mission critical applications. *Journal of Ambient Intelligence and Humanized Computing*, **2020**, 11, 3155-3173	3.7	2
596	ThermoSim: Deep learning based framework for modeling and simulation of thermal-aware resource management for cloud computing environments. *Journal of Systems and Software*, **2020**, 166, 110596	3.3	18
595	Progressive Search Algorithm for Service Discovery in an IoT Ecosystem **2019**,		4
594	Probability Density for Amazon Spot Instance Price **2019**,		1
593	Performance-Aware Management of Cloud Resources. *ACM Computing Surveys*, **2019**, 52, 1-37	13.4	7
592	**2019**,		4
591	Brownout Approach for Adaptive Management of Resources and Applications in Cloud Computing Systems. *ACM Computing Surveys*, **2019**, 52, 1-27	13.4	22
590	An energy and performance aware consolidation technique for containerized datacenters. *IEEE Transactions on Cloud Computing*, **2019**, 1-1	3.3	21
589	IoT-F2N: An energy-efficient architectural model for IoT using Femtolet-based fog network. *Journal of Supercomputing*, **2019**, 75, 7125-7146	2.5	12
588	BrownoutCon: A software system based on brownout and containers for energy-efficient cloud computing. *Journal of Systems and Software*, **2019**, 155, 91-103	3.3	18
587	IoT-CANE: A unified knowledge management system for data-centric Internet of Things application systems. *Journal of Parallel and Distributed Computing*, **2019**, 131, 161-172	4.4	12
586	Holistic resource management for sustainable and reliable cloud computing: An innovative solution to global challenge. *Journal of Systems and Software*, **2019**, 155, 104-129	3.3	37
585	ROUTER: Fog enabled cloud based intelligent resource management approach for smart home IoT devices. *Journal of Systems and Software*, **2019**, 154, 125-138	3.3	65
584	Bio-Inspired Algorithms for Big Data Analytics: A Survey, Taxonomy, and Open Challenges **2019**, 1-17		11
583	Performance anomaly detection using isolation-trees in heterogeneous workloads of web applications in computing clouds. *Concurrency Computation Practice and Experience*, **2019**, 31, e5306	1.4	3
582	Performance evaluation of live virtual machine migration in SDN-enabled cloud data centers. *Journal of Parallel and Distributed Computing*, **2019**, 131, 55-68	4.4	13
581	Social Internet of Things (SIoT): Foundations, thrust areas, systematic review and future directions. *Computer Communications*, **2019**, 139, 32-57	5.1	68
580	State and runtime-aware scheduling in elastic stream computing systems. *Future Generation Computer Systems*, **2019**, 97, 194-209	7.5	7

579	An auction-based incentive mechanism for heterogeneous mobile clouds. *Journal of Systems and Software*, **2019**, 152, 151-164	3.3	14
578	A Trust-Based Agent Learning Model for Service Composition in Mobile Cloud Computing Environments. *IEEE Access*, **2019**, 7, 34207-34226	3.5	20
577	FogBus: A Blockchain-based Lightweight Framework for Edge and Fog Computing. *Journal of Systems and Software*, **2019**, 154, 22-36	3.3	137
576	ETAS: Energy and thermal-aware dynamic virtual machine consolidation in cloud data center with proactive hotspot mitigation. *Concurrency Computation Practice and Experience*, **2019**, 31, e5221	1.4	22
575	Latency-aware Virtualized Network Function provisioning for distributed edge clouds. *Journal of Systems and Software*, **2019**, 152, 24-31	3.3	26
574	Priority-Aware VM Allocation and Network Bandwidth Provisioning in Software-Defined Networking (SDN)-Enabled Clouds. *IEEE Transactions on Sustainable Computing*, **2019**, 4, 17-28	3.5	22
573	Sustainable Cloud Computing Realization for Different Applications: A Manifesto. *Lecture Notes on Data Engineering and Communications Technologies*, **2019**, 95-117	0.4	4
572	QoS-aware cloud service composition using eagle strategy. *Future Generation Computer Systems*, **2019**, 90, 273-290	7.5	63
571	RADAR: Self-configuring and self-healing in resource management for enhancing quality of cloud services. *Concurrency Computation Practice and Experience*, **2019**, 31, e4834	1.4	20
570	SDCon: Integrated Control Platform for Software-Defined Clouds. *IEEE Transactions on Parallel and Distributed Systems*, **2019**, 30, 230-244	3.7	14
569	FOCAN: A Fog-supported smart city network architecture for management of applications in the Internet of Everything environments. *Journal of Parallel and Distributed Computing*, **2019**, 132, 274-283	4.4	101
568	A Cloud Bidding Framework for Deadline Constrained Jobs **2019**,		2
567	A fog-driven dynamic resource allocation technique in ultra dense femtocell networks. *Journal of Network and Computer Applications*, **2019**, 145, 102407	7.9	10
566	TSLAM. *ACM Transactions on Autonomous and Adaptive Systems*, **2019**, 13, 1-41	1.2	5
565	Value-based cloud price modeling for segmented business to business market. *Future Generation Computer Systems*, **2019**, 101, 502-523	7.5	6
564	QoS-aware secure transaction framework for internet of things using blockchain mechanism. *Journal of Network and Computer Applications*, **2019**, 144, 59-78	7.9	28
563	CloudSimSDN-NFV: Modeling and simulation of network function virtualization and service function chaining in edge computing environments. *Software - Practice and Experience*, **2019**, 49, 1748-1764	2.5	10
562	Edge Affinity-based Management of Applications in Fog Computing Environments **2019**,		12

561	Microservices-based IoT Application Placement within Heterogeneous and Resource Constrained Fog Computing Environments **2019**,		18
560	J-OPT: A Joint Host and Network Optimization Algorithm for Energy-Efficient Workflow Scheduling in Cloud Data Centers **2019**,		3
559	Resource Management and Scheduling for Big Data Applications in Cloud Computing Environments. *Advances in Computer and Electrical Engineering Book Series*, **2019**, 1-23	0.3	4
558	An API for Development of User-Defined Scheduling Algorithms in Aneka PaaS Cloud Software. *Advances in Computer and Electrical Engineering Book Series*, **2019**, 170-187	0.3	1
557	SoCo-ITS **2019**,		1
556	Quality of Service (QoS)-driven resource provisioning for large-scale graph processing in cloud computing environments: Graph Processing-as-a-Service (GPaaS). *Future Generation Computer Systems*, **2019**, 96, 490-501	7.5	8
555	ElasticSFC: Auto-scaling techniques for elastic service function chaining in network functions virtualization-based clouds. *Journal of Systems and Software*, **2019**, 152, 108-119	3.3	24
554	EAODBT: Efficient Auditing for Outsourced Database with Token Enforced Cloud Storage **2019**,		1
553	Geo-Cloudlet: Time and Power Efficient Geospatial Query Resolution using Cloudlet **2019**,		4
552	MovCloud: A Cloud-Enabled Framework to Analyse Movement Behaviors **2019**,		5
551	EdgeLens: Deep Learning based Object Detection in Integrated IoT, Fog and Cloud Computing Environments **2019**,		20
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