

Profile Page



Name : Dr Mohit Kumar

Designation : Assistant Professor Grade-i

Department : Information Technology

Qualification : PhD Computer science (IIT Roorkee)
M.Tech Computer science (ABV-IIITM Gwalior)
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Research Interests :

Cloud computing, Fog computing, Internet of Things, Soft Computing, Blockchain

Other Profile Links :

Google Scholar Link :

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Personal Web Link :

Dr. Mohit Kumar [Click Here](#)

Journal Publications :

Year	Journal	Publication
2023	IEEE Internet of Things Journal IF=10.238 [SCI]	M. Kumar, A. Kishor, Samariya, J. K., & Zomaya, A. Y. (2023). An Autonomic Workload Prediction and Resource Allocation Framework for Fog enabled Industrial IoT.
2022	Journal of Grid Computing Springer IF=3.986 [SCI-E Indexed]	Kalka dubey, S C Sharma and Mohit Kumar, A Secure IoT Applications Allocation Framework for integrated Fog-Cloud Environment
2022	Concurrency and Computation: Practice and Experience IF=1.81 [SCI-E Indexed]	Kumar, Mohit, et al. "Experimental performance analysis of cloud resource allocation framework using spider monkey optimization algorithm."
2022	Internet of Things Elsevier IF=5.711 [SCI]	Iftikhar, Sundas, Sukhpal Singh Gill, Mohit Kumar, Chenghao Song, Minxian Xu, Mohammad Sadegh Aslanpour, Adel N. Toosi, Junhui Du et al. "AI-based fog and edge computing: A systematic review, taxonomy and future directions."
2022	Transactions on Emerging Telecommunications Technologies, IF=3.31 [SCI-E]	Singh, S., Kumar, M., Verma, O. P., Kumar, R., & Gill, S. S "An IIoT based secure and sustainable smart supply chain system using sensor networks"

2022	Cluster Computing Journal, IF=2.3 [SCI]	Sudheer Mangalampalli, Mohit Kumar and Ganesh Reddy Karri, "Multi Objective Task Scheduling algorithm in cloud computing using Grey Wolf optimization"
2022	Software: Practice and Experience Wiley Journal, IF=3.2 [SCI-E Indexed]	Ananya, Mohit Kumar, Nisha and Sukhpal Gill, "Journey from Cloud of Things (CoT) to Fog of Things (FoT): Survey, New Trends and Research Directions"
2022	International Journal of Information Technology, Springer [Scopus-Indexed]	Mehak Sharma, Mohit Kumar, Jitendra Kumar Samriya "An optimistic approach for task scheduling in cloud computing"
2022	Journal of Ambient Intelligence and Humanized Computing, Springer IF=3.662 [SCI-E]	Jitendra Kumar Samriya, Mohit Kumar, Rajeev Tiwari "Energy-aware ACO-DNN optimization model for intrusion detection of unmanned aerial vehicle (UAVs)"
2022	International Journal of Information Technology, Springer [Scopus-Indexed]	Surendra Kumar, Jitendra Kumar Samriya, Arun Singh Yadav, Mohit Kumar "To improve scalability with Boolean matrix using efficient gossip failure detection and consensus algorithm for PeerSim simulator in IoT environment"
2022	Journal of Ambient Intelligence and Humanized Computing, Springer IF=3.662 [SCI-E]	Dubey, K., Sharma, S. C., Kumar, M., Kumar, P., & Nasr, A. "A secured GA-WPC framework for scheduling the independent tasks in cloud environment"
2021	Multimedia Tools and Applications Springer IF=2.757 [SCI-E Indexed]	OP Verma, Saurav Kumar, Drishti Yadav, Himanshu Gupta, Mohit Kumar "Towards smart surveillance as an aftereffect of COVID-19 outbreak for recognition of face masked individuals using YOLOv3 algorithm"
2021	IEEE Transactions on Sustainable Computing	Mohit Kumar; Avadh Kishor; ARPS: An Autonomic Resource Provisioning and Scheduling Framework for Cloud Platforms
2021	International Journal of System Assurance Engineering and Management	Prashant Kumar, Naveen Chauhan, Mohit Kumar, Lalit K Awasthi Clustering based opportunistic traffic offloading technique for device-to-device communication
2021	The Journal of Supercomputing	Nisha Chaurasia, Mohit Kumar, Rashmi Chaudhry, Om Prakash Verma Comprehensive survey on energy-aware server consolidation techniques in cloud computing
2021	Journal of Reliable Intelligent Environments	Shalini Sharma Goel, Anubhav Goel, Mohit Kumar, Germán Moltó A review of Internet of Things: qualifying technologies and boundless horizon
2020	Neural Computing and Applications	Mohit Kumar, Subhash Chander Sharma, Autonomic cloud resource provisioning and scheduling using meta-heuristic algorithm
2019	Neural Computing and Applications, 2019, Springer IF=4.664) [SCI] Status: Published	Mohit Kumar and S. C. Sharma, "PSO based novel resource scheduling technique to improve QoS parameters in cloud computing
2019	Journal of Network and Computer Applications, vol. 143, pp. 1-33 (Elsevier IF=5.273) [SCI Indexed] Status: Published	Mohit Kumar et al., "A comprehensive survey for scheduling techniques in cloud computing
2018	Sustainable Computing: Informatics and Systems, Vol. 19, pp. 147-164, 2018 (Elsevier IF=1.80) [SCI-E Indexed] Status: Published	Mohit Kumar and S.C.Sharma, "PSO-COGENT: Cost and Energy Efficient scheduling in Cloud environment with deadline constraint
2018	World journal of modeling and simulation, vol. 14, no. 4, pp. 276-288, 2018. (Scopus Indexed) Status: Published	Mohit Kumar and S.C.Sharma, "Load balancing algorithm to minimize the makespan time in cloud environment

2017	Journal of Computers & Electrical Engineering (CAEE), Vol. 69, pp. 395-41, (Elsevier, IF=2.189) [SCI-E Indexed] Status: Published	Mohit Kumar and S.C.Sharma, "Deadline constrained based dynamic load balancing algorithm with elasticity in cloud environment
2017	international journal of Computers and applications, vol. 42, no. 1, Nov-2017 (Taylor & Francis, Scopus). Status: Published	Mohit Kumar and S.C.Sharma, "Dynamic load balancing algorithm to minimize the makespan time and utilize the resources effectively in cloud environment

Conference Publications :

Year	Conference	Publication
2022	7th International Conference on Computing in Engineering & Technology, in Dr. Babasaheb Ambedkar Technological University, Lonere, Maharashtra	Shadan Ali and Mohit Kumar "Service Placement in Edge Computing with AI based Techniques: A Systematic Review"
2022	21 International Conference In Computational Science–ICCS 2022 [Rank A]	Samriya, J. K., Kumar, M., Ganzha, M., Paprzycki, M., Bolanowski, M., & Paszkiewicz, A, "An Energy Aware Clustering Scheme for 5G-Enabled Edge Computing Based IoMT Framework"
2021	11th International Conference on Cloud Computing, Data Science & Engineering (Confluence)	Mohit Kumar, Kalka Dubey, Rakesh Pandey Evolution of Emerging Computing paradigm Cloud to Fog: Applications, Limitations and Research Challenges
2019	International Conference on Information Technology (ICIT), India, 2019 (IEEE)	Mohit Kumar et al., "VM Selection using DVFS Technique to Minimize Energy Consumption in Cloud System
2018	Procedia Computer science, vol. 125, pp. 717-724, 2017 (Elsevier, Scopus)	• Mohit Kumar, Kalka Dubey and S.C.Sharma, "Elastic and flexible deadline constraint load Balancing algorithm for Cloud Computing
2018	in Procedia Computer Science, vol. 125, pp. 725–732, 2018 (Elsevier, Scopus).	Kalka Dubey, Mohit Kumar and SC Sharma, "Modified HEFT Algorithm for Task Scheduling in Cloud Environment
2017	Procedia Computer Science, vol.115, pp. 322–329, 2017 (Elsevier Scopus).	Mohit Kumar and S.C. Sharma," Dynamic load balancing algorithm for balancing the workload among virtual machine in cloud computing
2016	3rd International Conference on Computing for Sustainable Global Development. Delhi. 16-18 March 2016. (IEEE)	Mohit Kumar and S.C. Sharma," Priority Aware Longest Job First (PA-LJF) Algorithm for Utilization of the Resource in Cloud Environment
2016	6th International Conference on soft computing for problem solving (SocProS), Thapar, Patiyala, India 2016 (Springer).	Mohit Kumar, K.Dubey and S.C.Sharma, "Job Scheduling algorithm in cloud environment considering the priority and cost of job
2016	international Conference on soft computing: Theories and applications (SoCTA),Jaipur, India 2016 (Springer, Scopus).	T. Bhardwaj, Mohit Kumar and S.C.Sharma, "Megh : A Private Cloud Provisioning Various IaaS and SaaS
2015	International Conference on Advances in Computer Engineering and Applications (ICACEA), Ghaziabad, India, 2015 pp. 66-70. (IEEE)	Mohit Kumar et al., "A Priority Based Job Scheduling Algorithm Using IBA and EASY Algorithm for Cloud Metascheduler
2013	Information Telecommunication and Computing (ITC 2013)," ACEEE, 2013. (Elsevier)	Mohit Kumar, Nirmal Roberts, "A Technique to reduce the Economic Denial of Sustainability (EDoS) Attack in Cloud

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
Edited book	Convergence of Cloud with AI for Big Data Analytics: Foundations and Innovation	Wiley-Scrivener	Prof. Danda B. Rawat, Howard University, Washington, USA. Prof. Lalit K Awasthi, Director NIT Hamirpur, India. Prof. Valentina E. Balas, University of Arad, Romania. Dr. Mohit Kumar, NIT Jalandhar, India. Dr. Jitendra Kumar Samriya, NIT Jalandhar, India.		2022
Book chapter	Internet of Things in the global impacts of COVID-19: A Systematic study	Wiley-Scrivener	Shalini Sharma Goel, Anubhav Goel, Mohit Kumar, Sachin Sharma		2022
Book chapter	Hritu Raj, Mohit Kumar, Prashant Issues and Challenges related to Privacy and Security in Health-care using IoT, Fog and Cloud computing	Wiley-Scrivener	Hritu Raj, Mohit Kumar, Prashant Kumar, Amritpal Singh, Om Prakash Verma		2021
Reference book	Computer architecture and hardware maintenance	jai prakash nath publication	Mayank Arya and Mohit Kumar		2020

Events Organized :

Category	Type	Title	Venue	From	To	Designation
Short-term course	National	Cloud of Things (CoT): Theoretical and Practical Implications	Department of information technology, NIT Jalandhar	10-08-20	14-08-20	Coordinator
Short-term course	National	Soft Computing: Theories and Applications	Department of information technology, NIT Jalandhar	14-09-20	18-09-20	Coordinator
E-International Conference	International	Socio-Economic and Health Challenges due to COVID-19 and Mitigation Strategies (SECHM-2020)	NIT Jalandhar held during October 22-23, 2020.	22-10-2020	23-10-20	Organizing Secretary

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Hrituraj	Blockchain Assisted Secure and Reliable Data Exchange for Healthcare 4.0	Completed	2022	