

## Profile Page



Name : Dr Avtar Singh  
Designation : Assistant Professor  
Department : Computer Science & Engg.  
Qualification : PhD (NIT Hamirpur)  
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### Research Interests :

Cloud Computing, Internet of Things (IoT), Parallel and Distributed Computing; Machine Learning

### Other Profile Links :

Google Scholar Link :

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### Journal Publications :

Year	Journal	Publication
2022	Computer Science Review 46, 100514, 2022.	N Thakur, A Singh, AL Sangal, Cloud services selection: A systematic review and future research directions
2021	International Journal of Creative Research Thoughts (IJCRT), Vol. 9 issue 7	Amit Kumar Bind, Avtar Singh, "A Review on IoT Applications and its challenges and limitations of existing solutions"
2015	Journal of Computer and Communications Vol 3 pp. 13-21	Avtar Singh, Kamlesh Dutta, "Apply AHP for Resource Allocation Problem in Cloud"
2015	International journal Computer Technology & Applications Vol 6, pp 1036-1041	Avtar Singh, Kamlesh Dutta, Himanshu Gupta, Cloud Load Balancing Based on ACO algorithm,
2014	International Journal of Cloud Applications and Computing, Vol 4, pp 33-44	Anil Singh, Kamlesh Dutta, Avtar Singh, "Resource allocation in cloud computing environment using AHP technique"
2014	International Journal of Computer Applications vol 6, pp 66-72	Avtar Singh, Kamlesh Dutta, Himanshu Gupta, A Survey on Load Balancing Algorithms for Cloud Computing,
2014	International Journal of Computer Applications 93(11):12-16	Ankit Chandle, Avtar Singh, Naresh Kumar and AnjuBala, "Passive Optical Networks Beneficial To Cloud Computing",
2013	IEEE Transactions on Smart Processing and Computing, Vol. 2, no. 6, pp. 367	Avtar Singh, and Kamlesh Dutta, "A Genetic Algorithm Based Task Scheduling for Cloud Computing with Fuzzy logic"

## Conference Publications :

Year	Conference	Publication
2022	International Conference on Data Science and Computational Intelligence (ICDSCI)	Abhishek Sahu, Kuldeep Kumar and Avtar Singh, "Impact Analysis of Adversarial Attacks on Convolutional Neural Networks for Healthcare: A Review"
2022	7th International Conference on Emerging Applications of Information Technology (EAIT)	Hirdesh Varshney and Avtar Singh, "A Machine Learning based Prediction Model for Fetal Health Assessment",
2022	3rd International Conference on Emerging Trends in Engineering and Management (ICETEM)	Rajvir Kaur and Avtar Singh, Rice Plant Disease Classification and Comparative Analysis of SVM Hyperparameters
2022	ALGORITHMS COMPUTING AND MATHEMATICS CONFERENCE ACM	Lingeshwaran B and Avtar Singh, Performance Evaluation of Classic McEliece Post Quantum Cryptography,
2021	International Conference on Secure Cyber Computing and Communications (ICSCCC-2021)	Shubham Pol and Avtar Singh, Task Scheduling Algorithms in Cloud Computing: A Survey
2021	International Conference on Recent Innovations in Computing (ICRIC-2021).	Neha thakur, Avtar Singh and A L Sangal, Comparison of Multi-Criteria Decision-Making Techniques for Cloud Services Selection
2020	International Conference on Paradigms of Computing, Communication and Data Sciences PCCDS-2020	Sandeep Kumar Patel and Avtar Singh, "Task Scheduling in Cloud Computing Using Hybrid Meta-heuristic: A Review"
2020	International Conference on Industrial and Manufacturing Systems (CIMS) 2020.	Himanshu Suyal, and Avtar Singh, "Comparative study of truth inferences algorithms in crowdsourcing"
2020	SPRINGER, International Conference on Soft Computing: theories and Applications (SoCTA 2020)	Shobhana Kashyap, and Avtar Singh, "An Ensemble-based Method for Predicting Facebook Check-ins"
2019	International Conference on Advanced Communication & Computational Technology (ICACCT-2019),	Deepak Sharma and Avtar Singh, "Towards Privacy-Preserving and Keyword Search on Cloud Data", International Conference on Advanced Communication & Computational Technology.
2019	International Conference on Advanced Communication & Computational Technology (ICACCT-2019)	Vaishla, N., Singh, Avtar Competitive Study of Various Task-Scheduling Algorithm in Cloud Computing
2018	International Conference on secure cyber computing and communication (ICSCCC)	Pushpendra Rajawat, Santosh Singh Rathore, Avtar Singh, Deepak Kumar Gupta, "Predictive Analysis of Medical Data Using a Hybrid Machine Learning Technique"
2018	International Conference on Soft Computing: Theories and Applications	Neha Thakur, Avtar Singh, A L Sangal, "Data Integrity Authentication Techniques in Cloud Computing: A Survey"

## Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
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Book Chapter	Comparative study of truth inferences algorithms in crowdsourcing”	Optimization Methods for Engineering Problems, CRC Press	Himanshu Suyal, and Avtar Singh,	9781774911303	2022
Book Chapter	Improving Multi label Classification in Prototype Selection Scenario	Computational Intelligence and Healthcare Informatics, Wiley Scrivener Publishing	Himanshu Suyal, Avtar Singh	9781119818687	2021
Book Chapter	Auction Based Scheme for Resource Allotment in Cloud Computing	Digital Business, Springer International Publishing AG, part of Springer Nature	R Bhan, A Singh, R Pamula, P Faruki	978-3-319-93939-7	2019

### Events Organized :

Category	Type	Title	Venue	From	To	Designation
STC	National	Recent Research Trends in Cloud, Fog and Edge Computing	NIT Jalandhar	17-07-2019	21-07-2019	Coordinator
STC	National	Machine Learning Tools and Technique	NIT Jalandhar	07-12-2019	11-12-2019	Coordinator
STC	National	Soft Computing: Theories and Applications	NIT Jalandhar	14-09-2020	18-09-2020	Convener
STC	National	Data Analytics Tools and Techniques	NIT Jalandhar	22-09-2020	26-09-2020	Coordinator
FDP	National	Cloud Computing and Its Applications: Opportunities and Challenges	Department of CSE, NIT Jalandhar	16-12-22	20-12-22	Coordinator

### Professional Affiliations :

Designation	Organization
Member/CN: 90917976	IEEE
5262470	ACM Membership

### PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Lingeswaran B	Performance Evaluation of Classic McEliece Post Quantum Cryptography	Completed	2022	
Rajvir Kaur	Rice Plant Disease Classification and Comparative Analysis of SVM Hyperparameters	Completed	2022	
Amit Kumar Bind	Task Scheduling Optimization in Cloud Computing	Completed	2021	
Shivani Goswami	Air Quality Index Prediction and Analysis using Machine Learning Model	Completed	2021	

Shubham Suresh Pol	Enhanced Pair Based Task Scheduling algorithm with the use of ACO	Completed	2021	
Abhishek Singh	Detection of Fraudulent Credit Card Transactions through Machine Learning Techniques	Completed	2020	Mr D.K. Gupta
Rahul Kumar	Estimation of Air Pollution in Delhi using Machine Learning Techniques	Completed	2020	
Sandeep Kumar Patel	Task Scheduling Using Improved Harmony Search in the Cloud	Completed	2020	
Deepak Sharma	Privacy Preserving on Searchable Encrypted Data in Cloud	Completed	2019	
Nishant Vaishla	Enhanced PSO for Resource Utilization in Cloud	Completed	2019	

### **Admin. Responsibilities :**

<b>Position Held</b>	<b>Organization</b>	<b>From</b>	<b>To</b>
Warden Hostel No. 1	NIT Jalandhar	13-02-2018	17-10-2018
Warden Hostel No. 2	NIT Jalandhar	18-10-2018	11/08/2020