

## Profile Page



Name : Dr Amritpal Singh  
Designation : Assistant Professor  
Department : Computer Science & Engg.  
Qualification : PhD Probabilistic Data Structures (Thapar Institute of Engineering and Technology, Patiala, Punjab)  
ME Software Engineering (Thapar Institute of Engineering and Technology, Patiala, Punjab)  
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### Research Interests :

Machine Learning and Data Mining; Probabilistic Data Structures; Data Analysis; Big Data;  
Internet of Things; Nature Inspired Algorithms

### Other Profile Links :

#### Google Scholar Link :

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#### Personal Web Link :

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### Journal Publications :

Year	Journal	Publication
2019	Computing and Informatics, Slovak Academy of Sciences- SCIE Indexed (IF:0.504)	Amritpal Singh and Shalini Batra, "FingerPrint Based Duplicate Detection in Streamed Data,"
2019	Future Generation Computer Systems, Elsevier- SCIE Indexed (IF: 4.63), doi: <a href="https://doi.org/10.1016/j.future.2017.09.072">https://doi.org/10.1016/j.future.2017.09.072</a> .	A. Singh, S. Garg, S. Batra, and N. Kumar, "Probabilistic data structure-based community detection and storage scheme in online social networks,"
2019	Knowledge-Based Systems, SCI, (IF-5.10)	Amritpal Singh, Sahil Garg, Ravneet Kaur, Shalini Batra, Neeraj Kumar, and Albert Y. Zomaya. "Probabilistic data structures for big data analytics: A comprehensive review."

2019	IEEE Network SCIE Indexed (IF: 7.503) 33, Volume no. 2 (2019): Pages (72-81).	Sahil Garg, Amritpal Singh, Kuljeet Kaur, Gagangeet Singh Aujla, Shalini Batra, Neeraj Kumar, and Mohammad S. Obaidat. "Edge Computing-Based Security Framework for Big Data Analytics in VANETs."
2019	IEEE Network, SCIE Indexed (IF: 7.2),	Sahil Garg, Amritpal Singh, Kuljeet Kaur, Gagangeet Singh Aujla, Shalini Batra, Neeraj Kumar, Mohammad S Obaidat, "Edge Computing-Based Security Framework for Big Data Analytics in VANETs"
2018	Computing and Informatics, Slovak Academy of Sciences- SCIE Indexed (IF:0.504)	Amritpal Singh and Shalini Batra, "Streamed data analysis using adaptable bloom Filter,"
2018	Future Generation Computer Systems, Elsevier- SCIE Indexed (IF: 4.63), doi:https://doi.org/10.1016/j.future.2017.09.072.	Amritpal Singh and Shalini Batra, "Ensemble based Spam Detection in Social IoT using Probabilistic Data Structures,"
2018	Future Generation Computer Systems, Elsevier- SCIE Indexed (IF: 4.63), doi:https://doi.org/10.1016/j.future.2017.09.072.	Amritpal Singh, Sahil Garg, Shalini Batra, Neeraj Kumar, and Joel J.P.C. Rodrigues, \Bloom Filter based Optimization Scheme for Massive Data Handling in IoT Environment (ABF),"
2018	IEEE Transactions on Industrial Informatics, SCI, (IF-7.3)	Amritpal Singh, Sahil Garg, Kuljeet Kaur, Shalini Batra, Neeraj Kumar, and Kim-Kwang Raymond Choo. "Fuzzy-folded Bloom Filter-as-a-Service for Big Data Storage on Cloud."
2018	IEEE Internet of Things Journal, SCIE Indexed (IF: 7.596),	Punnet kumar, Amritpal Singh, Sahil Garg, Shalini Batra, Neeraj Kumar and Ilsun You, \Multi Verse Optimizer (MVO) Algorithm for Optimal Path Planning for Two-Dimensional UAV,"
2018	IEEE Network, SCIE Indexed (IF: 7.2),	Sahil Garg, Amritpal Singh, Shalini Batra, Neeraj Kumar and Laurence T. Yang, "UAVs- Empowered Edge Computing Environment for Cyber-Threat Detection in Smart Vehicles,"
2015	Procedia Computer Science, Volume 70, 2015, Pages 499-507, ISSN 1877-0509, http://dx.doi.org/10.1016/j.procs.2015.10.091.	Diksha Nagpal, Sumit Kaur, Shruti Gujral, Amritpal Singh, \FR: A Recommender for Finding Faculty Based on CF Technique"
2015	International Journal of Innovations in Engineering and Technology, Vol 5 Issue 2,	Atul Kumar, Sumit Kaur, Amritpal Singh , \Heuristic Approach for Recommending Re- search Articles Using Collaborative Tagging"
2015	International Journal of Innovations in Engineering and Technology, Vol 5 Issue 2,	Gurbinder Kaur, Vijay Kumar, Amritpal Singh , \Content Based Recommender Sys- tem for Map Routing",
2015	International Journal of Innovations in Engineering and Technology, Vol 5 Issue 2	Harpreet Kaur, Maninder Singh, Amritpal Singh , \Analysis and Design of Hybrid Online Movie Recommender System",
2013	International Journal Of Soft Computing And Engineering	Amritpal Singh, Shalini Batra, \A short survey of Advantages and Applications of Skip graphs"

### Conference Publications :

Year	Conference	Publication
2019	IEEE third international conference on Intelligent computing and control systems, VAIGAI, MADURAI.	Ravneet Kaur , Amritpal Singh, Shalini Batra \A short survey on role of bloom lters in NDN",

2017	GLOBECOM 2017 IEEE Global Communications Conference, IEEE	Divya Gupta, Sahil Garg, Amritpal Singh, Shalini Batra, Neeraj Kumar, and M. S. Obaidat. "ProIDS: Probabilistic Data Structures Based Intrusion Detection System for Network Traffic Monitoring."
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### Events Organized :

Category	Type	Title	Venue	From	To	Designation
Workshop	National	Data mining using R	Two day workshop on "Data mining using R" for PhD/ME Scholars at Thapar Institute of Engineering and Technology, Patiala, Punjab.	09-03-15	10-03-15	Research Scholar