Profile Page

Name	:	Dr Prashant Kumar
Designation	:	Assistant Professor
Department	:	Computer Science & Engg.
Qualification	:	Ph. D. Computer Science & Engineering (National Institute of Technology Hamirpur)
		M. Tech. Computer Science & Engineering (National Institute of Technology Hamirpur)
		B. Tech. Computer Science & Engineering
Address	:	Department of Computer Science & Engineering
		Dr. BR Ambedkar National Institute of Technology
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Research Interests :

My research focuses on areas of wireless and mobile networks including Opportunistic Networks, Mobile Ad hoc Networks (MANETs), Internet of Things, Device-to-device communications.

Other Profile Links :

Google Scholar Link :

Dr. Prashant Kumar [Click Here](#)

Journal Publications :

Year	Journal	Publication
2021	International Journal of System Assurance Engineering and Management	P Kumar, N Chauhan, M Kumar, LK Awasthi, "Clustering based opportunistic traffic offloading technique for device-to-device communication"
2019	Journal of Computer Networks and Communications	R Tanwar, K Singh, M Zamani, A Verma, P Kumar, "An Optimized Approach for Secure Data Transmission Using Spread Spectrum Audio Steganography Chaos Theory and Social Impact Theory Optimizer"
2018	International Journal of Web Services Research, 15 (2), 47-66	Prashant Kumar, Naveen Chauhan, Narottam Chand and LK Awasthi, "SF-APP: A Secure Framework for Authentication and Privacy Preservation in Opportunistic Networks"
2017	International Journal of Grid and Distributed Computing, 10(1), 99-110	Prashant Kumar, Naveen Chauhan, Narottam Chand, "NextContact: Neighbor Discovery Mechanism for Opportunistic Networks"

2014	International Journal of Advanced Pervasive and Ubiquitous Computing, 6(2), 36-47	Prashant Kumar, Naveen Chauhan, LK Awasthi, Narottam Chand, "Cooperative Cache Replacement Policy for MANETs"
2011	International Journal of Mobile Computing and Multimedia Communication, 3(4), 53-66	Prashant Kumar, Naveen Chauhan, LK Awasthi, Narottam Chand, "Enhancing Data Availability in MANETs with Cooperative Caching"

Conference Publications :

Year	Conference	Publication
2021	International Conference on Intelligent Circuits and Systems	Vikas Tiwari, K.P. Sharma, Nonita Sharma, Prashant Kumar, "Smart water quality analysis system using datapine"
2021	SSRN	Balpreet Singh, Krishna Pal Sharma, Nonita Sharma, Prashant Kumar, "Blockchain-based Claim Verification and Approval System for Disbursing Fertilizer Subsidy"
2021	IEEE International Conference on Communication, Control and Information Sciences	Arun Prakash, Prashant Kumar, KP Sharma, "Challenges and Applications of Li-Fi in D2D Communication"
2018	IEEE International Conference on Secure Cyber Computing and Communications	Prashant Kumar, Naveen Chauhan, Narottam Chand, "Mobility Models and Simulation Tools for Opportunistic Networks"
2018	Springer International Conference on Innovative Computing and Communications (LNNS Vol-55	Subeesh A., Prashant Kumar, Naveen Chauhan, "Flood Early Detection System Using Internet of Things and Artificial Neural Networks"
2018	Springer International Conference on Innovative Computing and Communications (LNNS Vol-55)	Vinay Dubey, Prashant Kumar, Naveen Chauhan, "Forest Fire Detection System Using IoT and Artificial Neural Network"
2018	Springer International Conference on Futuristic Trends in Network and Communication Technologies (CCIS Vol-958)	Prashant Kumar, Naveen Chauhan, Narottam Chand, "Node Activity based Routing in Opportunistic Networks"
2017	International Conference on Advanced Computing, Networking, and Informatics	Prashant Kumar, Naveen Chauhan, Narottam Chand, "Security Framework for Opportunistic Networks"
2017	IEEE International Conference on Inventive Communication and Computational Technologies	Prashant Kumar, Naveen Chauhan, Narottam Chand, "Authentication With Privacy Preservation in Opportunistic Networks"
2016	IEEE International Conference on Information Processing	Prashant Kumar, Naveen Chauhan, Narottam Chand, "Node Movement Based Neighbor Discovery in Opportunistic Networks"
2012	IEEE International Conference on Recent Trends in Information Technology,	Atul Rao, Prashant Kumar, Naveen Chauhan, "Energy Efficient Dynamic Group Caching in Mobile Ad hoc Networks for Improving Data Accessibility"
2012	International Conference on Emerging Trends in Computer and Electronics Engineering	Rajeev Kumar, Prashant Kumar, "Replica Allocation Technique Based on Clusters for MANETs"
2011	IEEE International Conference on Advanced Computing and Communication Technologies	Atul Rao, Prashant Kumar, Naveen Chauhan, "Cooperative Caching Strategies for MANETs and IMANETs"
2010	IEEE International Conference on Computer and Communications Technology	Prashant Kumar, Gautam Bose, Jitendra Kumar Gupta, Naveen Chauhan, "An Analysis of Internet Integrated Mobile Adhoc Networks"

2010	International Conference on Recent Trends in Soft Computing and Information Technology	Prashant Kumar, Naveen Chauhan, "A Review of Cooperative Cache Management Techniques in MANETs" Proceeding of

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Edited Book	Application of Deep Learning Methods in Healthcare and Medical Science	Apple Academic Press	Dr. Rohit Tanwar, Dr. Prashant Kumar, Dr. Malay Kumar, Dr. Neha Nandal	9781774911204	2022
Book Chapter	Intelligent IoT for Advanced Healthcare Systems	John Wiley & Sons	Hritu Raj, Mohit Kumar, Prashant Kumar, Amritpal Singh, Om Prakash Verma	9781119769279	2022
Book Chapter	Computational Vision and Robotics, Advances in Intelligent Systems and Computing	Springer Nature	Vivek Kumar, Narayan Chaturvedi, Prashant Kumar	978-81-322-2195-1	2014
Book Chapter	Contemporary Challenges and Solutions for Mobile and Multimedia Technologies	IGI Global	Prashant Kumar, Naveen Chauhan, LK Awasthi, Narottam Chand	9781466621633	2012
Book Chapter	Advanced Computing, Networking and Security	Springer Nature	Rajeev Kumar, Prashant Kumar, Naveen Chauhan	978-3-642-29279-8	2012

Events Organized :

Category	Type	Title	Venue	From	To	Designation
e-STC	National	Applications of Machine Learning in the Advancements of Computer Science (AML-ACS 2020)	CSED, NIT Jalandhar (Online)	17/08/2020	21/08/2020	Coordinator
e-STC	National	Security and Privacy Challenges in Computing Paradigms (SPCCP-2020)	CSED, NIT Jalandhar (Online)	1/9/2020	5/9/2020	Coordinator
e-STC	National	Use of Computer Applications for Effective Office Management	Center for Continuing Education, NIT Jalandhar	07-09-Sep-2020	12-13-Sep-2020	Coordinator
e-STC	National	Basics of Data Science using Python and R (BDSPR-2021)	CSED, NIT Jalandhar (Online)	09-Aug-21	31-Aug-21	Coordinator

e-STC	National	Machine Learning and Deep Learning for Research	Center for Continuing Education, NIT Jalandhar	06-Dec-2021	20-Dec-2021	Coordinator
Conference	International	International Conference on Computing, Communication & Security (ICCCS-2021)	Online	04- Oct- 2021	06- Oct- 2021	Secretary
Conference	National	2nd National Conference on Innovations and Best Practices in Education	NIT-J (Online/Offline)	17- Dec- 2021	18- Dec- 2021	Secretary
e-STC	National	Python Programming: Basics to Advance	CCE NIT-J (Online)	07- Mar- 2022	18- Mar- 2022	Coordinator
e-STC	National	Machine Learning and Data Science using Python: Hands-on Approach	CSED, NIT-J (Online)	24- Jun- 2022	28- Jun- 2022	Coordinator

Professional Affiliations :

Designation	Organization
Senior Member	Institute of Electrical and Electronics Engineers (IEEE) (Membership ID: 92320519)

PhD Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Ms. Bharti Sandhu	D2D Communication	Ongoing	2022	
Mr. Nishant Chaurasia	Resilient Malicious Activity Detection Framework for IoT Environment	Ongoing	2021	
Mr. Amit Mishra	Security in e-Governance	Ongoing	2021	Prof. Lalit K Awasthi
Ms. Aishwarya Vardhan	Resilient Intrusion Detection System for IoT Framework using Ensembled Learning Approaches	Ongoing	2020	Prof. Lalit K Awasthi
Mr. Vijay K Tiwari	Machine Learning in IoT	Ongoing	2020	

PG Dissertation Guided :

Student Name	Dissertation Title	Status	Year	Co-Supervisor
Amul	IDS based on Deep learning Technique to secure software-defined 5G Network	Awarded	2022	-
Dayanidhi	Heart Disease Prediction using Ensemble Classifier	Awarded	2022	-
Arun Prakash K	Disaster Recovery via Li-Fi in D2D Communication	Awarded	2021	
Pooja	Vision Based Pothole Detection by using CNN Model	Awarded	2021	

Patents :

Name	Reg./Ref. No.	Date of Award/Filling	Organization	Status
Blockchain-Based Claim Verification and Approval System for Disbursement of Fertilizer Subsidy in India	SW-13965/2020	26-Sep-20	Copyright Office India	Granted
Copyright Online Voting Platform	11556/2021-CO/SW	23-May-2021	Copyright Office India	Filed
Heart Disease Prediction	11554/2021-CO/SW	24-May-21	Copyright Office India	Filed
A DRONE BASED DISASTER RECOVERY WITH COMMUNICATION FACILITY USING LIGHT BASED COUPLED WITH RF BASED SYSTEM	202111050213	02-Nov-2021	Patent Office India	Filed

Admin. Responsiblities :

Position Held	Organization	From	To
Assistant CoE (Results)	Dr. BR Ambedkar National Institute of Technology, Jalandhar	02/03/2020	02/03/2021
Coordinator, Centre for Continuing Education (CCE)	Dr. BR Ambedkar National Institute of Technology, Jalandhar	02/03/2021	Till date
Member, Technical Events	Dr. BR Ambedkar National Institute of Technology, Jalandhar	02/03/2021	Till date
Member, Centre for Artificial Intelligence	Dr. BR Ambedkar National Institute of Technology, Jalandhar	03-Sep-2021	Till date
Coordinator, Virtual Lab Committee (IT Department)	Dr. BR Ambedkar National Institute of Technology, Jalandhar	16-Sep-2020	Till date
Lab In-charge (CSED), Microprocessor and DCLD Lab	Dr. BR Ambedkar National Institute of Technology, Jalandhar	25-Feb-2020	07-Feb-2023
Coordinator, B. Tech 3rd Year, CSE	Dr. BR Ambedkar National Institute of Technology, Jalandhar	25-Feb-2020	Till date
Coordinator, B. Tech (Industrial Training), CSE	Dr. BR Ambedkar National Institute of Technology, Jalandhar	25-Feb-2020	Till date
Lab In-charge (CSED), RDBMS Lab	Dr. BR Ambedkar National Institute of Technology, Jalandhar	08-Feb-2023	Till date
Co-Coordinator, Departmental Purchase Committee (CSED)	Dr. BR Ambedkar National Institute of Technology, Jalandhar	01-Feb-2023	Till date
Implementation Coordinator, Smile ERP (Purchase Module)	Dr. BR Ambedkar National Institute of Technology, Jalandhar	25-Jan-2023	Till date
Member, Institute Innovation Council (I&TA)	Dr. BR Ambedkar National Institute of Technology, Jalandhar	05-Dec-2022	Till date
Warden, Boys Hostel No. 3	Dr. BR Ambedkar National Institute of Technology, Jalandhar	08-Feb-2023	Till date