

Profile Page



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Department : Computer Science & Engg.

Qualification : PhD Wireless Sensor Networks (National Institute of Technology Hamirpur HP)
M.Tech Computer Science and Engineering
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Research Interests :

Machine Learning for Data Analytics, Wireless Networks, and Security. Designing fault tolerant Wireless Sensor Networks, Wireless Adhoc Networks, Distributed Systems and Internet of Things (IoT).

Other Profile Links :

Google Scholar Link :

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Journal Publications :

Year	Journal	Publication
2022	Mathematics In Engineering, Science And Aerospace 13(3) Pp 1-11	KP Sharma, Shivam, and Prashant, "Price prediction of bitcoin using social media activities and past trends"
2022	Peer-to-Peer Netw. Appl. 15, 2079–2100 (2022). https://doi.org/10.1007/s12083-022-01341-4	Singh, V., Sharma, K.P. & Verma, H.K. ABNT "Adaptive beaconing and neighbor timeout for geographical routing in UAV networks"
2022	Peer-to-Peer Networking and Applications. (2022): 1-18.	A Choudhary, Santosh Kumar, and K. P. Sharma. " RFDCS: A Reactive Fault Detection and Classification Scheme for Clustered WSNs.
2021	journal Tehnicki glasnik/Technical Journal (Print: ISSN 1846-6168, Online: ISSN 1848-5588),15 (1),1-12	Faisal Rasid Lone, KP Sharma, HK Verma, "Evolution of VANETs to IoV: Applications and Challenges"

2021	International Journal of Computer Applications in Technology; InderScience Publishers; Special Issue on: The Significance of Machine Learning for COVID-19, Vol-1 , PP 1-12	Asmita Mahajan Nonita Sharma F H AlMukhtar Monika Mangla Krishna Pal Sharma , "An Ensemble Approach to Forecast COVID-19 Incidences using Linear and Non-Linear Statistical Models."
2021	Measurement, Elsevier Volume 186, 2021	Tanu Sharma, Krishna Pal Sharma, Karan Veer, "Decomposition and evaluation of SEMG for hand prostheses control
2021	Wireless Personal Communications (2021): 1-15.	A Choudhary, Santosh Kumar, Manish Sharma, and K. P. Sharma. "A Framework for Data Prediction and Forecasting in WSN with Auto ARIMA
2020	Current Bioinformatics, Vol-15 (4) , PP 309-317	N Sultana, N Sharma, KP Sharma, S Verma, "A Sequential Ensemble Model for Communicable Disease Forecasting."
2019	International Journal of Sensor Networks 30.1 (2019): 56-68	Krishna Pal Sharma, and Teek Parval Sharma. "Dynamic load tuning for energy-hole avoidance in corona model for a wireless sensor network."
2017	Turkish Journal of Electrical Engineering and Computer Sciences	K. P. Sharma, T. P. Sharma, "Energy-hole avoidance and lifetime enhancement of a WSN through load factor," Vol 25 pp. 1375-1387, Feb 2017.
2017	Wireless Networks, Springer	K. P. Sharma, T. P. Sharma, "ZBFR: Zone Based Failure Recovery in WSNs by Utilizing Mobility and Coverage Overlapping," Vol 23 (7), pp. 2263-2280, Oct 2017.
2017	Wireless Networks, Springer	K. P. Sharma, T. P. Sharma, "rDFD: reactive distributed fault detection in wireless sensor networks," vol 23 (4) pp 1145-1160, May 2017.
2016	Computers and Electrical Engineering, Elsevier	K. P. Sharma, T. P. Sharma, "Distributed Connectivity Restoration in Networks of Movable Sensor Nodes," Vol. 56 pp. 608-629, Nov 2016.
2015	International Journal of Advanced Research in Computer Science.	K. P. Sharma, T. P. Sharma, "Deployment Strategies for Mobile Wireless Sensor Networks (MWSNs), vol. 6, no. 1, pp. 102-108, 2015.
2015	International Journal of Engineering, Management & Sciences (IJEMS).	K. P. Sharma, T. P. Sharma, "A Comparative Study of Deployment Strategies in Wireless Sensor Networks," vol. 2, no. 5, pp. 1-6, 2015.

Conference Publications :

Year	Conference	Publication
2022	International Conference on Intelligent Technologies (CONIT 2022)	Shivam Kumar Singh, Krishna Pal Sharma & Prashant Kumar, "Analytical study for Price Prediction of Bitcoin using Machine Learning and Deep Learning"
2022	International Conference on Advance computing and Innovative Technologies in engineering ICACITE-2022	Wasique Haleem Pandit, K P Sharma and Nonita Sharma, "International Roughness Index (IRI) prediction using various machine learning techniques on Flexible Pavements"
2021	SECURE CYBER COMPUTING AND COMMUNICATIONS , NIT Jalandhar	Shivam Chaudhary, Krishna Pal Sharma, Nonita Sharma and Amritpal Singh, "A Four-Stage dynamic approach for Software Defect Prediction"
2021	SECURE CYBER COMPUTING AND COMMUNICATIONS , NIT Jalandhar	Anita Kumari, Nonita Sharma and KP Sharma, "A Review on Convolutional Neural Networks for Skin Lesion Classification", 2021
2021	SECURE CYBER COMPUTING AND COMMUNICATIONS , Dr BR Ambedkar National Institute of Technology Jalandhar	Mukesh Kumar Yadav, Krishna Pal Sharma, Nonita Sharma and Prashant Kuma, "Intrusion Detection System using Machine Learning Algorithms: A Comparative Study" , 2021

2021	International Conference on Reliability, Infocom Technologies and Optimization (Trends and Future Directions)(ICRITO), pp. 1-5. IEEE	Banik, Shouvik, Nonita Sharma, and K. P. Sharma. "Analysis of Regression Techniques for Stock Market Prediction
2021	International Conference on Communication, Control and Information Sciences (ICCISc), vol. 1, pp. 1-6. IEEE	Prashant Kumar, and K. P. Sharma. "Challenges and Applications of Li-Fi in D2D Communication."
2020	International Conference on Convergence of Smart Technologies, SPPU Pune India	Faisal Rasid Lone, KP Sharma, HK Verma , "Evolution of VANETs to IoV: Applications and Challenges" , 2020
2020	First International Conference on Power, Control and Computing Technologies (ICPC2T), IEEE, NIT Rourkela	Balpreet Singh, Pawan Kumar, Nonita Sharma, KP Sharma , "Sales Forecast for Amazon Sales with Time Series Modeling " , 2020
2020	3rd International Conference on Intelligent Circuits and Systems (ICICS 2020) held on June 26 - 27th, 2020, LPU Jalandhar	Vikas Tiwaria, K. P. Sharmaa, Nonita Sharmaa, and Prashant Kumara, "Smart Water Quality Analysis System using Datapine" ,2020
2019	4th International Conference Information, Communication & Computing Technology (ICICCT-2019), in Springer CCSIS Series (11 May 2019)	Aashima Adya, Krishna Pal Sharma, and Nonita Sharma. "A Comparative Analysis of Mobility Models for Network of UAVs".
2019	International Conference on Emerging Trends in Information Technology (ICETIT-2019), Springer lecture notes in Electrical Engineering. (21-22 June 2019)	Aashima Adya, Krishna Pal Sharma, and Nonita Sharma. "Energy Aware Clustering Based Mobility Model in FANET"
2019	Elsevier International Conference on Advances in Electronics & Computational Intelligence, IIIT Allahabad (15 Apr, 2019)	Nashreen Sultana, Nonita Sharma, and Krishna Pal Sharma, "Ensemble Model Based on NNAR and SVR for Predicting Influenza Incidences",
2019	Elsevier International Conference on Advances in Electronics & Computational Intelligence, IIIT Allahabad (15 Apr, 2019)	Shobit Verma, Nonita Sharma, and Krishna Pal Sharma, "Comparative Analysis of Time Series Models for the prediction of Conjunctivitis Disease",
2019	International Conference on Mathematical, Computational Sciences and Management (ICMACOSMA-19), ISER Bangalore India,	Soubhik Mandal, Krishna Pal Sharma and Nonita, "Enhanced OLSR Protocol in Virtual Force based mobility controlled environment" , 2019
2018	2018 First International Conference on Secure Cyber Computing and Communication (ICSCCC)(pp 188-191) IEEE, 2018.	Abhijeet Mendhe, Deepak Kumar Gupta, and Krishna Pal Sharma. "Secure QR-Code Based Message Sharing System Using Cryptography and Steganography."
2018	2018 First International Conference on Secure Cyber Computing and Communication (ICSCCC). IEEE, 2018.	Sourabh Yadav, and Krishna Pal Sharma. "Statistical Analysis and Forecasting Models for Stock Market."
2015	IEEE, 1st International Conference on Next Generation Computing Technologies (NGCT), 2015	K. P. Sharma and T. P. Sharma, "A reactive scheme for detecting soft faults in wireless sensor networks," in 1st International Conference on Next Generation Computing Technologies (NGCT), 2015, pp. 217–222.
2015	IEEE, International Conference on Industrial Instrumentation and Control (ICIC), 2015	K. P. Sharma and T. P. Sharma, "A throughput decent and energy efficient mechanism for fault detection in WSNs," in International Conference on Industrial Instrumentation and Control (ICIC), 2015, pp. 311–316.

2015	IEEE, International Conference on Advances in Computer Engineering and Applications (ICACEA), 2015	K. P. Sharma and T. P. Sharma, “CPFR: Coverage preserving failure recovery in wireless sensor networks,” in International Conference on Advances in Computer Engineering and Applications (ICACEA), 2015, pp. 284–289.
2014	International Conference on Computer and Information Technology (ICCIT 2014).	K. P. Sharma, T.P. Sharma, “Load-Enabled Deployment and Sensing Range Optimization for Lifetime Enhancement of WSNs”, in: Proc. International Conference on Computer and Information Technology (ICCIT 2014), Toronto, Canada, Jun 16-17, 2014, pp. 357-361.

Book/Chapter Publications :

Type	Title	Publisher	Authors	ISBN/ISS N No.	Year
Book Chapter	Time Series Forecasting Techniques for Infectious Disease Prediction	Taylor & Francis	Jaiditya Dev Monika Mangla Nonita Sharma K.P. Sharma		2021
Book Chapter	A systematic review of Deep Learning Techniques for Semantic Image Segmentation: Methods, Future directions, and challenges	Taylor & Francis	Reena Nonita Sharma Vaishali Wadhwa Amanpartap Singh Pall K.P. Sharma		2021
Book Chapter	Distributed Denial of Service Attacks and Mitigation in Wireless Sensor Networks	De Gruyter Book publication - Distributed Denial of Service Attacks: Concepts, mathematical and cryptographic solutions	Rohit Singh KP Sharma and Lalit Kumar Awasthi		2021
Book Chapter	A Review of Recent Issues and Challenges of Fault Management Techniques in Underwater Wireless Sensor Network	IGI Global	N Sharma, KP Sharma, R Rani		2020
Book Chapter	A Comparative Analysis of Mobility Models for Network of UAVs	Springer book series Communications in Computer and Information Science (CCIS, volume 1025)	Aashima Adya, Krishna Pal Sharma, and Nonita Sharma		2019
Book Chapter	Energy Aware Clustering Based Mobility Model for FANETs	Springer Lecture Notes in Electrical Engineering, Vol: 605 (2019): 36-47	Ashima Adya, Krishna Pal Sharma, Nonita		2019

Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
		Capacity building for human resource development in Unmanned Aircraft System & Drone and related Technology	Ministry of Electronics and Information Technology				ongoing	
		Water Pollution Control Using Wireless Sensor Networks	TEQIP-III (Seed Grant Project)			2.0 Lac	completed	

Events Organized :

Category	Type	Title	Venue	From	To	Designation
STC	National	Recent Trends in Information Security	NIT JALANDHAR	14-Mar-2018	18-Mar-2018	Coordinator
STC	National	IoT with Cloud Applications organized	NIT JALANDHAR	01-Jul-2019	05-Jul-2019	Coordinator
STC	National	Internet of Things and Wireless Sensor Networks	NIT JALANDHAR	20-Oct-2019	24-Oct-2019	Coordinator
STC	National	Applications of Machine Learning in the Advancements of Computer Science	NIT JALANDHAR	17-Aug-2020	21-Aug-2020	Convener
STC	National	Machine Learning and Data Science using Python: Hands-on Approach	NIT Jalandhar	24-06-22	28-06-22	
Summer course	National	“Basics of Data Science using Python and R”	NIT Jalandhar	09-08-21	31-08-21	Coordinator

Patents :

Name	Reg./Ref. No.	Date of Award/Filing	Organization	Status

BLOCKCHAIN-BASED CLAIM VERIFICATION AND APPROVAL SYSTEM FOR DISBURSEMENT OF FERTILIZER SUBSIDY IN INDIA	SW-13965/2020.	2020		Granted
“Ensemble based spam detection in social IoT using Probabilistic data structures”	SW-14674/2021	23-05-2021		Granted

Admin. Responsibilities :

Position Held	Organization	From	To
Coordinator	Departmental technical society OpenGeest	Feb 2018	Till
Co-coordinator	GIAN		
Faculty In-charge	The Wireless and Optical Networks lab	Feb 2018	Till
Coordinator	B.Tech (CSE) and M.Tech (CSE & IS) Accreditation Process	Feb 2018	Till
Co-ordinator	M.Tech Computer Science and Engg. and M.Tech Information Security	Feb 2018	Till