

Faculty Profile

Name: Manoj Kumar

Designation: Assistant Professor

Department: Computer Science & Engineering

Email ID: vermamk@gmail.com, manoj.kumar@smvdu.ac.in

Contact Number and Extn.: 01991-285524 Extn. 2314



Qualification: M. Tech. (Comp. Sc. & Engg.), B. Tech. (Comp. Engg.), GATE & NET qualified

Experience:

Teaching: 16 years

Research:

Administration:

Total: 16 years

Areas of Interest / Specialization:

1. Wireless Networks
2. Databases

Brief Bio-data:

Er. Manoj Kumar received M. Tech. & B. Tech. in the area of Computer Science and Engineering from Kurukshetra University, Kurukshetra. He is pursuing PhD in the area of Wireless Mesh Networks from SMVD University, Katra India. He has more than 16 years of experience in teaching the engineering students at undergraduate and post graduate level. He has also guided several M. Tech. thesis and B. Tech. projects. He has published several research papers in peer reviewed international journals and conferences.

Research Profile

Research Publications:

S. No.	Year	Publication
1.	2020	"Security of Vehicular Ad-Hoc Networks (VANET): A survey." In Journal of Physics: Conference Series, vol. 1427, no. 1, p. 012015. IOP Publishing, 2020
2.	2018	"Performance Evaluation of VANETs for Evaluating Node Stability in Dynamic Scenarios", International Journal of Computer Applications Technology and Research, 7.9 (September 2018), pg. 376-385, ISSN 2019-8656, DOI 10.7753/IJCATR0709.1002
3.	2017	"A Comparative Analysis of Routing Protocols in Vehicular Ad-Hoc Network", International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE), 6.5 (2017): 378 –389.
4.	2017	"A Comparative Study of Routing Protocols for Underwater Wireless Sensor Networks", International Journal of Computer Science & Communication, 8.1 (2017): 27-29.
5.	2016	"Clustering in Wireless Sensor Networks: A survey", International Journal of Innovations & Advancement in Computer Science, 5.6 (2016): 1-6
6.	2015	"A Review of Routing Protocols for Underwater Wireless Sensor Networks." International Journal of Advanced Research in Computer and Communication Engineering, 4.12 (2015): 373-378.
7.	2013	"A Secure and Energy Efficient Data Dissemination Protocol for Wireless Sensor Networks." <i>IJ Network Security</i> 15.6 (2013): 490-500.
8.	2011	"Capacity and interference aware link scheduling with channel assignment in wireless mesh networks." <i>Journal of Network and Computer Applications</i> 34.1 (2011): 30-38.
9.	2010	"Coverage and connectivity aware neural network based energy efficient routing in wireless sensor networks." <i>Journal on Applications of Graph Theory in Wireless Ad hoc Networks and Sensor Networks (J GRAPH-HOC) 2.1</i> (2010): 46-60.
10.	2010	"Optimized Bandwidth Utilization for Real Time Applications in Wireless Sensor Networks", International Journal of Computer Applications 1.6 (2010): 98-103.

Conference Publications:

S. No.	Year	Conference	Publication
1.	2017	3rd International Conference on Next Generation Computing Technologies (NGCT 2017), 30th – 31st Oct 2017 at University of Petroleum and Energy Studies, Dehradun, India.{ <i>Scopus indexed</i> }	A Model for Resource Constraint Project Scheduling Problem Using Quantum inspired PSO
2.	2016	3rd International Conference on Recent Trends and Advancements in Engineering and Technology (ICRTAET)	Data Aggregation in Wireless Sensor Networks: A Review
3.	2009	First IEEE International Conference on Networks and Communications, 2009. NETCOM'09.	Neural network based energy efficient clustering and routing in wireless sensor networks
4.	2008	Fourth IEEE International Conference on Wireless Communications & Sensor Networks (WCSN-2008)	Towards Secure Key Distribution in MANET

Research Supervised:

S. No.	Year	Role	Research Topic	Status
1.	2018-19	M. Tech. Thesis Supervisor	Performance Analysis of Security issues in IoT using MEMS-IoT device	Completed
2.	2017-18	M. Tech. Thesis Supervisor	Discovering efficient ways of communication in VANET	Completed
3.	2016-17	M. Tech. Thesis Supervisor	Performance analysis of VANET for stable configuration of nodes using K-means clustering considering real scenario	Completed
4.	2016-17	M. Tech. Thesis Supervisor	Improving network lifetime and fault tolerance of LEACH for large scale WSN	Completed
5.	2016-17	M. Tech. Thesis Supervisor	A model for multi-processor task scheduling problem using Quantum Genetic Algorithm	Completed
6.	2016-17	M. Tech. Thesis Supervisor	A model for resource constraint project scheduling problem using quantum inspired PSO	Completed
7.	2016-17	M. Tech. Thesis Supervisor	Optimized watchdog and pathrater intrusion detection system for selfish nodes using bacteria foraging algorithm	Completed
8.	2015-16	M. Tech. Thesis Supervisor	Energy efficient clustering in WSN	Completed
9.	2015-16	M. Tech. Thesis Supervisor	Cluster Depth Based Routing (CDBR) for Underwater WSN	Completed

10.	2012-13	M. Tech. Thesis Supervisor	Optimization of energy consumption and load balanced clustering of LEACH in WSN	Completed
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Professional Affiliation:

S. No.	Designaion	Organization
1.	Life member	Computer Society of India (CSI)
2.	Member	Association for Computing Machinery (ACM)
3.	Member	International Association of Computer Science and Information Technology (IACSIT)
4.	Member	International Association of Engineers (IAENG)