

## Faculty Profile



**Name** : Parveen Kumar  
**Designation** : Assistant Profile  
**Qualifications** : Ph.D, M.Tech, B.E.  
**Phone** : +91- 9416854853  
**Email** : parveen@msit.in

**Area of Interest/Specialization:** Wireless communication, Sensor Network, VANET, Artificial intelligence.

**Experience** : 18 years

### Key Publications

1. K.Parveen, S.Dinesh, K.Ashish and S. Neeti, "Improved Deep Learning-Based Clustering and Adaptive Social-Aware CH Selection in VANET," *Concurrency and Computation*, vol. 37, issue 25-26, 2025, doi/10.1002/cpe.70333. **[SCIE]**
2. Kumar Parveen, Pawan Kumar Dahiya, Bijay Kumar Singh. "HGC: Hypergraph-based dynamic stable clustering scheme model for vehicular ad-hoc networks (VANETs)", *International Journal of Communication System (IJCS)*, Dec 2021.DOI: <https://doi.org/10.1002/dac.5068>. **[SCIE]**
3. Kumar Parveen, Pawan Kumar Dahiya, Bijay Kumar Singh. "Modularized hypergraph clustering scheme model for stable VANET", *Concurrency and Computation: Practice and Experience*, Aug 2022.DOI: <https://doi.org/10.1002/cpe.7283> **[SCIE]**.
4. N. Nehra, G. Sharma, P. Kumar, D. Sheoran, and A. Yadav, "Review of speaker recognition: Concepts, challenges, architectures, and future directions," *Journal of Information and Optimization Sciences*, vol. 46, no. 1, pp. 121–132, 2025, doi: 10.47974/JIOS-1857. **[ESCI]**
5. Yadav Amita, Kumar Parveen et.al . "Advanced Epileptic Seizure Detection Using Deep Learning and Bayesian Optimization", *SN Computers Journal*, Volume 5, article number 854, (2024) **(Scopus)**.
6. Kumar Parveen, Sheoran Dinesh et.al . "COMPREHENSIVE TECHNIQUES FOR INTELLIGENT TRANSPORTATION SYSTEMS: ISSUES AND SOLUTIONS USING WIRELESS SENSOR", *Journal of the Asiatic Society of Mumbai* , Vol. 97, No.2, February 2023.
7. Sangwan Pardeep, Deshwal Deepti, Kumar Parveen. et.al . "Evaluating The Contribution Made By Multilevel Cognitive And Machine Learning", *Res Militaris* , Vol-13, 2023.

8. Sangwan Pardeep, Kumar Parveen, Sheoran Dinesh et.al . "ENCOURAGING YOUTH TOWARDS AGRICULTURE FOR SUSTAINABLE DEVELOPMENT OF INDIA", South India Journal of Social Sciences , Vol-XXII, No-2, July-December-2022.
9. Kumar Parveen "A Review on Vehicular Networking: Motivation, Architecture and Issues", SATYAM,pp-64-67, 2022.
10. Kumar Parveen "Vehicular Ad-hoc Network (VANET): Issues", SATYAM,pp-33-37, 2019.
11. Singh Ujjwal, Sharad Anirudh, Goel Rahul, Kumar Parveen "IOT Enabled Indoor Air Quality Monitoring", Int. Jou of electronics engg, pp-100, Jan-June 2019.
12. Goyal Varun, Singh Ujjwal, Kumar Parveen "Smart Nodes in LAN by using Wireless Sensor Network", IJARCSEE, pp-9, 2018.

### **Papers presented in Conferences**

1. Mr. Parveen Kumar presented a paper "Analyzing Air Quality Index of urban cities & comparing ML models for AQI predictions" in NCI-TIDE 2025 dated 18th-19th November 2025.
2. Mr. Parveen Kumar presented a paper "Design of digital Differentiator using Teacher - Learning based optimization Algorithm" in NCI-TIDE 2025 dated 18th-19th November 2025.
3. Mr. Parveen Kumar presented a paper "Review of Speaker Recognition: Concepts, Challenges, architectures, future directions" in RAICE 2025 dated 6th-8th Feb 2025.
4. Mr. Parveen Kumar presented a paper "Epilepsy Detection using Novel Bayesian Optimized Stacked Deep Learning Layers" in ICAIA 2024 dated 19th-20th March 2024.
5. P. Kumar and B. K. Singh, "Enhanced VANET Performance by Stable Cluster Head Selection Using Novel Stack of Algorithms," 2023 IEEE 12th International Conference on Communication Systems and Network Technologies (CSNT), Bhopal, India, 2023, pp. 810-815, doi: 10.1109/CSNT57126.2023.10134738.
6. Parveen Kumar "Recent Trends in IOT based VANET". Paper presented in national Conference on Recent Innovations in Emerging Technology & Science, organized by JBIT Institutions Dehradun, held on 1-2 July 2022.
7. Parveen Kumar "WSN FOR ITS: A STATE-OF-THE-ART-SURVEY". Paper presented in International Conference on Applied Nonlinear Analysis & Soft Computing, held online on 22-23 Dec 2020.
8. Parveen Kumar "WSN design issues and Challenges: A review". Paper presented in national Conference on Recent Trends in Computing and Communication Technologies (RCCT-2017), held on 02-03 March 2017.

### **Awards and Recognitions**

1. Mr. Parveen Kumar won the best paper award for a paper titled “Design of digital Differentiator using Teacher - Learning based optimization Algorithm” in NCI-TIDE 2025 dated 18th-19th November 2025.
2. Mr. Parveen Kumar received an appreciation letter for being the member of organizing committee of the short term course on “Digital Tools for Teaching and Learning” held at Maharaja Surajmal Institute of Technology under NITTR from 11-15 March, 2024.
3. Mr. Parveen Kumar received an appreciation letter for being the member of organizing Committee of National Conference on Recent Trends in Climate Change, Energy and Sustainability held at MSIT on 11-12 November, 2024.
4. Received best paper award for a paper titled “Epilepsy Detection using Novel Bayesian Optimized Stacked Deep Learning Layers” in ICAIA 2024 dated 19th-20th March 2024.
5. Received Best Faculty Award for the year 2022 in Maharaja Surajmal Institute of Technology.
6. Received Certificate of Appreciation for the year 2021 for contribution in 7<sup>th</sup> National Conference on Admet-2021.
7. Certificate of Appreciation from Director Placement, SMES.

### **Patent/Copyright**

### **Sponsored Project/Consultancy**

### **Book Chapter/Books published**

### **Ph.D Supervised**

**Memberships of Professional bodies:** ISTE Member, IEEE,

### **Other Contributions**

- Currently Co-Convenor, Placement Committee MSIT
- Was the IEEE MTT-S Chapter Advisor in the years 2011-19
- Was the IEEE RAS Chapter Advisor in the Years 2019-2021