Dr. Vivek Sethi
Assistant Professor

Specialization
Vehicular Edge Networks, Internet of Things, Reinforcement Learning

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Education

- PhD from Indian Institute of Technology Ropar (2023)
- M.Tech (CSE) from NIT Hamirpur (2017)
- B.Tech (CSE) from Shri Mata Vaishno Devi University (2012)

Experience

1. Assistant Professor, Computer Engineering Department, NIT Kurukshetra, India (July 2025 – Till date).

2. Assistant Professor, Computer Engineering Department, Thapar Institute of Engineering & Technology, India (Aug 2023 – July 2025).

Patents

1. Real-time Vehicular Pollution Monitoring System (Granted).

Publications

1. V. Sethi and S. Pal, “FedDOVe: A Federated Deep Q-learning-based Offloading for Vehicular Fog Computing,” Future Generation Computer Systems, vol. 141, pp. 96-105, 2023.
2. V. Sethi, S. Pal, A. Vyas, S. Jain, K. Naik, “Energy-and-delay-aware Scheduling and Load Balancing in Vehicular Fog Networks,” Telecommunication Systems – TELSYS, vol. 82, pp. 373–387, 2022.

3. Sethi, V. and Chand, N. (2017) A Destination Based Routing Protocol for Context Based Clusters in VANET. Communications and Network, 9, 179-191.

4. V. Sethi, S. Pal and A. Vyas, “Online Energy-efficient Scheduling Algorithm for Renewable Energy-powered Roadside units in VANETs,” IEEE 17th International Conference on Mobile Ad Hoc and Sensor Systems (MASS), 2020, pp. 506-514.

5. V. Sethi and S. Pal, “Controlling Spread of COVID-19 Using VANETs, ”ICC 2021 - IEEE International Conference on Communications, 2021, pp.1-6.

6. Vivek Sethi and Sujata Pal, “MobiCache: A Mobility-aware Caching technique in Vehicular Edge Computing,” In The 28th Annual International Conference on Mobile Computing and Networking (ACM MobiCom ’22), October 17–21, 2022, Sydney, NSW, Australia.

7. Sujata Pal, Anindo Ghosh, and Vivek Sethi, “Vehicle Air Pollution Monitoring Using IoTs,” In Proceedings of the 16th ACM Conference on Embedded Networked Sensor Systems (SenSys ’18), 2018, New York, NY, USA, pp. 400–401.

8. V. Agarwal, S. Pal, N. Sharma and V. Sethi, “Identification of Defective Nodes in Cyber-Physical Systems,” IEEE 17th International Conference on Mobile Ad Hoc and Sensor Systems (MASS), 2020, pp. 20-25.

9. N. Jangamreddy, V. Sethi and S. Pal, “Web-Based Gesture Recognition System for Controlling Heterogeneous IoT devices using Deep Learning,” 11th International Conference on Communication Systems & Networks (COMSNETS), 2019, pp. 700-702.