



Dr. Naveen Kumar  
Assistant Professor

### **Specialization**

Named Data Networking, Network Security, P2P computing, Machine Learning, Meta-heuristics.

### **Email**

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Google Scholar Link: <https://scholar.google.com/citations?user=CLmm2eIAAAAJ&hl=en>

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### **Education**

- PhD in Computer Science and Engineering, from Motilal Nehru National Institute of Technology Allahabad (MNNIT Allahabad), Prayagraj, Uttar Pradesh
- M. Tech. in Software Engineering, from MNNIT Allahabad, Prayagraj, Uttar Pradesh
- B. Tech. in Computer Science and Engineering, from Uttar Pradesh Technical University (UPTU), Lucknow, Uttar Pradesh

### **Experience**

1. Assistant Professor, Department of Computer Science and Engineering, Thapar University Patiala, India (10 October 2022 – 12 October 2023)
2. Assistant Professor, Computer Science and IT Department, Jaypee Institute of Information Technology, Noida, Uttar Pradesh, India. (14 Dec 2021 - 26 Sept 2022)
3. Assistant Professor, Department of Computer Science and Engineering, Siksha 'O' Anusandhan Deemed to be University, Bhubaneswar, Odisha, India. (11 Dec 2020 - 11 Dec 2021)
4. Temporary Faculty, Computer Science and Engineering Department, MNNIT Allahabad, Prayagraj, Uttar Pradesh, India. (01 Aug 2019- 10 Dec 2020)

## Journal publications:

1. **Naveen Kumar**, Abdul Aleem, Ashutosh Kumar Singh, and Shashank Srivastava, "NBP: Namespace-based privacy to counter timing-based attack in named data networking", Journal of Network and Computer Applications, ISSN- 1084-8045, vol. 144, pp:155-170, 2019, Elsevier (IF: 6.281).
2. **Naveen Kumar**, Ashutosh Kumar Singh, Abdul Aleem, and Shashank Srivastava, "Security Attacks in Named Data Networking: A Review and Research Directions", Journal of Computer Science and Technology, ISSN 1860-4749, vol. 34, issue no. 6, pp:1319-1350, 2019, Springer (IF: 1.571).
3. Ashutosh Kumar Singh, Sourav Maurya, **Naveen Kumar**, & Shashank Srivastava. (2019). Heuristic approaches for the reliable SDN controller placement problem." Transactions on Emerging Telecommunications Technologies, ISSN 2161-3915, vol. 31, no. 2, e3761. (Wiley IF-2.638)
4. **Naveen Kumar**, Ashutosh Kumar Singh, and Shashank Srivastava. "A Triggered Delay-based Approach against Cache Privacy Attack in NDN." International Journal of Networked and Distributed Computing, ISSN 2211-7946 (2018): Vol. 6, Issue 3, 174-184 (MDPI Press).
5. **Naveen Kumar**, Ashutosh Kumar Singh, and Shashank Srivastava. "Feature selection for interest flooding attack in named data networking." International Journal of Computers and Applications (2019), ISSN: 1925-7074, Vol. 43, no. 6, 537-546 (Taylors & Francis).
6. Ashutosh Kumar Singh, **Naveen Kumar**, and Shashank Srivastava. "PSO and TLBO based reliable placement of controllers in SDN". International Journal of Computer Network and Information Security (2019), ISSN 2074-9090, Vol. 11, no. 2, 36-42 (Modern Education and Computer Science Press).
7. **Naveen Kumar**, Hare Krishna, Shashi Shubham, and Prabhu Padarbind Rout. " Automated categorization of student's query." International Journal of Computers and Applications (2022), pp 1-9 (Taylors & Francis).
8. **Naveen Kumar**, and Shashank Srivastava. "IBPC: An Approach for Mitigation of Cache Pollution Attack in NDN using Interface-Based Popularity." **Arabian Journal for Science and Engineering** (2023): ISSN 2191-4281 pp:1-11. (**Springer IF-2.807**)

## International Conference Papers in Proceedings:

9. **Naveen Kumar**, Ashutosh Kumar Singh, and Shashank Srivastava. "Evaluating machine learning algorithms for detection of interest flooding attack in named data networking." Proceedings of the 10th International Conference on Security of Information and Networks. ACM, 2017, Vol. 9841, ISBN 978-1-4503-5303-8.
10. **Naveen Kumar**, and Shashank Srivastava. "A Triggered Delay-based Approach against Cache Privacy Attack in NDN." 2018 IEEE/ACIS 17th International Conference on Computer and Information Science (ICIS). IEEE, 2018, ISBN 978-1-5386-5892-5, page 22-27.

11. Navinder Kaur, Ashutosh Kumar Singh, **Naveen Kumar**, & Shashank Srivastava. "Performance impact of topology poisoning attack in SDN and its countermeasure." Proceedings of the 10th International Conference on Security of Information and Networks. ACM, 2017.
12. **Naveen Kumar**, Abdul Aleem, and Sachin Kumar. " Detection of DDoS Attack in IoT Using Machine Learning." 1st International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2021). Springer, 2021, vol- 1534.
13. Gautam Prateek, Abdul Aleem, and **Naveen Kumar**." Improving Heart Disease Prediction Using Feature Selection Through Genetic Algorithm." 1st International Conference on Advanced Network Technologies and Intelligent Computing (ANTIC-2021). Springer, 2021, vol- 1534.
14. **Naveen Kumar** and Naveen Kumar Gupta. "Comparing the Performance of TCP/IP with Named Data Networking Using ns-3." Proceedings of the 2022 Fourteenth International Conference on Contemporary Computing. 2022.

### **Other Activities**

- Delivered a talk on Metaheuristics and its Application in IoT in a one-week workshop on Machine Learning in Vision and IoT held at MNNIT Allahabad from Jan 22-Jan 26, 2021.
- Delivered a talk on Metaheuristics and its Application in IoT in a one-week workshop on Artificial Intelligence in Vision and IoT held at MNNIT Allahabad from April 16-April 20, 2021.
- Delivered a guest lecture on Named Data Networking: Towards Content-Based Networking in 22th edition of SOA Weekly Academic Lecture Series (SOAWAL-CSE) held at Shiksha 'O' Anushandhan University, Bhubaneswar, on 1-Jan, 2022.
- Session Chair in International Conference on Artificial Intelligence, Blockchain, Computing and Security (ICABCS-2023) held at Galgotias University, Greater Noida, Uttar Pradesh from 24th to 25th February, 2023