

Dr. Vandana Kushwaha

Assistant Professor

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Research Interests:

- *High Speed Networks*
- *Wireless Sensor Networks*
- *Network Algorithms*

Academic Interest:

- *Problem Solving through C Programming*
- *Data & File Structures*
- *Data Communication and Computer Networks*
- *Net Centric Computing*
- *Database Management Systems*
- *Advanced Course in Database Systems*
- *Discrete Mathematical Structures*
- *Digital Logic and Circuits*
- *Neural Network*

Education:

- **Bachelors in Science** from *Lucknow University*.
- **Masters in Computer Applications** from *Babasaheb Bhimrao Ambedkar University, Lucknow*.
- **Ph.D. in Computer Applications** from *Institute of Science, Banaras Hindu University, Varanasi*.

Work Experience:

- **Assistant Professor** in the *Department of Computer Science, Institute of Science, Banaras Hindu University, Varanasi* from **October 2007** till date.

List of Publications:

International Journal:

1. **V. Kushwaha**, R. Gupta, A Router based Hybrid Approach for Congestion Control in High speed Wired Networks, *International Journal of Computer Sciences and Engineering* , Vol. 6 (11), pp: 89-100, **2018**.

2. **V. Kushwaha**, R. Gupta, Interaction of High Speed TCPs with Recent AQMs through Experimental Evaluation, *International Journal of Computer Network and Information Security(MECS)*, Vol.9, pp: 41–47, **2016**.
3. **V. Kushwaha**, R. Gupta, Ranking of Source Based Congestion Control Approaches for High-Speed Networks Using AHP, *International Journal of Communication Networks and Distributed Systems* , Vol. 17, no.4,pp: 387-411., **2016**. (SCOPUS).
4. **V. Kushwaha**, R. Gupta, Congestion control for high-speed wired network: a systematic literature review, *Journal of Network and Computer Applications (Elsevier)*, Vol.45 (2014), pp: 62–78. 2014. (SCI Indexed, Impact Factor: 3.99), October **2014**.
5. **V. Kushwaha**, R. Gupta , Research Issues in TCP based Congestion Control for High Speed Network, *International Journal of Computer Science & Communication Networks*, Vol .4(1), pp: 18-21. February **2014**.
6. **V. Kushwaha**, R. Gupta, A Review of Router based Congestion Control algorithms. *International Journal of Computer Network and Information Security (MECS)*, Vol.6 (1), pp:1–10. November **2013**.

International/National Conference:

1. **V. Kushwaha**, R. Gupta, *Interaction Studies of Some Recent AQMs with High Speed TCPs through Experimental Evaluation*, In IJCA Proceedings on National Conference on Advances in Computing Applications NCACA 2016(1):30-37, September **2016**.
2. **V. Kushwaha**, R. Gupta, *An analysis of performance parameters for congestion control in high-speed wired network*, In Proc. of IEEE 4th International Conference on Computer and Communication Technology (ICCCT), pp:133-138, **2013**.

International Book Chapter:

1. Ratneshwer , **Vandana Kushwaha**, Collective Intelligence In Networking, *Nature-Inspired Networking: Theory and Applications*, CRC Press (Taylor & Francis), chapter 5, pp. 145-182, **2018**.