

Dr. Neeta Singh, PhD (Computer Science)

Assistant Professor

Department of Computer Science and Engineering

School of Information and Communication Technology

Gautam Buddha University, Greater Noida (NCR)

Gautam Buddh Nagar, (U.P.), PIN-201308, India.

Phone-91-120-2344243(o), 9990715153

E-mail: neeta@gbu.ac.in, <https://sites.google.com/site/neetasingh112/>

Professional Qualification

Degree University/Board/Institute/Dept.

Ph.D Ph.D. in Computer Science from Agra University Center for Information and Decision Sciences. Center in 2007.

Title of Thesis: **Studies on Traffic Management Models for Wireless Communication Network.**

M.C.M. Masters In Computers and Managements, Dau Dayal Institute of Vocation Education, Agra University in 2003 with 1st Division.

B.Sc. (Physics, Chemistry, Maths) from Agra University in 1999 with 1st Division.

Publications:

International: (10)

- K.G. Mukesh and **N. Singh (2015)**: “Routing and Security Issues for Trust Based Framework in Mobile Ad Hoc Networks”, Vol. 17, Issue 3, pp 1-5, IOSR Journal of Computer Engineering (**IOSR-JCE**) **ESCI Indexed**
- Rao, Meena and **N. Singh (2015)**: Design and Development of MANETs with Quality of Service Parameters, **International Journal of Engineering And Computer Science** ISSN:2319-7242 Volume 4 Issue 5 May 2015, Page No. 12237-12244
- Rao, Meena and **N. Singh (2015)**: “Routing Issues in Mobile Ad Hoc Networks: A Survey”, **International Journal of Computer Science Trends and Technology (IJCST)**, Vol.3, Issue 1, p. 200-205.
- Rao, Meena and **N. Singh (2015)**: “Performance Evaluation of Multimedia Transmission in MANETs for AODV nthBR Routing Protocol”, **Advances in Computer Science and Information Technology (ACSIT)**, Vol. 2, No. 6, p. 527-529.
- Rao, Meena and **N. Singh (2014)**: “An Improved Routing Protocol (AODV nthBR) for Efficient Routing in MANETs”, , **Advance Computing, Networking and**

Informatics, Vol. 2, Smart Innovations Systems and Technologies, ISSN2190-3108, Springer

- Rao, Meena and **N. Singh (2013)**: Routing Challenge in Mobile Ad Hoc Networks, International journal of Information and Computation Technology (**IJICT**), ISSN 0974-2239, Vol 3, No.1.
- NK Verma, **N Singh**, R Gautam (2013): Performance Analysis Of Web Services By Using J Meter Performance Tool, **International Journal of Engineering And Computer Science**, ISSN:2319-7242 Volume 2 Issue 5 May, 2013 Page No. 1449-1452
- Kumar, S., **Singh, N.** and Kumar, A. (2011), “Classification of Software Quality Attributes for Service Oriented Architecture”, CCIS 169, pp. 46-51, 2011. **Springer** <http://www.springerlink.com/content/100818p127707453/>
- **Singh, N.** and Jain, M. (2011): “Buffering Schemes for Video Server in Video-on-Demand (VoD) System with Low User Delay”, Published in International Journal of Information and Computing, vol. 13, no. 2, pp 57-65.
- Jain, M. and **Singh, N.** (2010): Call admission control and blocking probability estimations in PCS networks using neuro fuzzy approach. Published in International Journal of Information and Computing, Vol. 13, No. 1, pp. 46-56.
- Jain, M. and **Singh, N.** (2006): M/M/1 Queue With Working Vacation In Wireless Access Networks. Published in **CSI**. Vol. 36, No. 4.

Book

- Traffic Management Models For Wireless Communication Network, LAP Lambert Academic Publishing (**2015-01-05**), ISBN-13: 978-3-659-61437-8.

Book Chapter (1)

- Jain, M. and **Singh, N.** (2006): Delay Analysis of Cellular Mobile Communication Network Supporting Integrated Traffic with Multimedia Services. Published in Edited Book Information Technology, Operations Research and computing (eds. M. Jain and G. C. Sharma) Allied Pub. Pvt. Ltd., New Delhi.

Paper Published in International Conference (7)

- Rao, Meena and **N. Singh (2014)**: Quality of service enhancement in MANETs with an efficient routing algorithm,” **IEEE** International Advance Computing Conference (IACC), ..., 2014 - ieeexplore.ieee.org.
- **N. Singh (2011)**: “Optimal Allocation for Handoff Prioritization in Cellular Radio Network ”, International Congress on Productivity, Quality, Reliability, Optimization and Modelling 2011 during 7-8 February 2011 in Delhi.

- **N. Singh (2011):** “Performance evaluation of Wideband Wireless Networks”, International Conference on Advances in Modelling, Optimization and Computing (AMOC-2011)” IIT Roorkee, Roorkee.
- Jain, M. and **Singh, N. (2005):** Performance Analysis in Multi Layer Cellular Network With Integrated Traffic. Published in proceedings of the 37th Annual Convention Vision 2020: The Strategic Role of Operational Research. pp 92-115.
- Jain, M., **Singh, N.** and Priya, K. (2003): “Performance Analysis of Video Server in Video-on-Demand (VoD) System”, Published in proceedings of APORS 2003: Sixth International Conference of the Association of Asia Pacific Operational Research Societies within IFORS, New Delhi, pp. 55.
- Jain, M. and **Singh, N. (2003):** “Performance Analysis of Wireless Local Loop (WLL) with Integrated Traffic”, Published in Souvenir of National Conference on Modern Mathematics: Applications to Information Technology sponsored by U.G.C. and organized by R.B.S. College Agra, pp.45.

Conferences Attended (6)

- International Conference on High Performance Architecture and Grid Computing (HPAGC-2011) on July 19-20, 2011, in Punjab, to be present Classification of Software Quality Attributes for Service Oriented Architecture.
- IADIS International Conference IADIS Wireless Applications and Computing 2010 during **26- 28 July 2010 in Freiburg, Germany** and presented paper entitled “Optimal Policy for Retrial Single Server Queue with Reneging”.
- International Conference on Operations Research Applications in Infrastructure Development held at J N Tata Auditorium, Indian Institute of Science, Bangalore on Dec 27-29, 2005 and presented paper entitled “Queueing Modeling of Wireless Local Loop (WLL)” and “Channel Allocation in Multilayer Cellular Networks”.
- Sixth International Conference of the Association of Asia-Pacific Operational Research Societies with in IFORS held at Delhi during December 8-11, 2003 and presented a paper entitled “Performance Analysis of Video Servers in (VoD) Video on Demand”.
- 37th Annual Convention Vision 2020: The Strategic Role of Operational Research Societies, Ahmedabad held on January 8-11, 2005 and presented paper entitled “Performance Analysis in Multi Layer Cellular Network with Integrated Traffic”.
- Bharata Ganita Parisad, held at Lucknow on November 13-14, 2005 and presented paper entitled “Markovian Queue with Randomly Changing Arrival Rates and a Resume Level Under N-Policy”.

National Conference (2)

- National Conference on Information Technology, Operations Research and Computing held at Grand Hotel, Agra on April 10-12, **2004** and presented paper

entitled “Delay Analysis of Cellular Mobile Communication Network Supporting Integrated Traffic with Multimedia Services”.

- National Conference on Modern Mathematics: Application to Information Technology held at Agra during 8 - 9 March, **2003** and presented a paper entitled “Performance Analysis of Wireless Local Loop (WLL)”.

Workshop (4)

- *Workshop on Wireless Communication* organized by School of Information and Communication Technology, Gautam Buddha University, Greater Noida, Uttar Pradesh, INDIA, April 20th, **2011**.
- *Impact of Information Technology in Indian Society* organized by School of Information and Communication Technology, Gautam Buddha University, Greater Noida, Uttar Pradesh, INDIA, March 22nd, **2011**.
- Attended and completed *IBM certification on Object oriented Analysis and Design using UML with essentials of Rational Software Architect*, 5th to 8th October **2010**.
- *Open Source Software Tools / Technologies*, New Delhi, July 29, **2009**.

Awards:

- **Best paper in Bharat Ganita Parsad for the applied Mathematics category, Markovian Queue with Randomly Changing Arrival Rates and With A Resume Level Under N-policy .**

Committee Member

- In charge of Board of Studies
- Member in Interview Panel for Walk-In- Interview
- Anti Ragging Committee
- House Allotment Committee
- Cultural Committee
- Kvjhj Conducted Industry visit for M.Tech. ICT students at ALTTC, Ghaziabad.
- Member of organizing committee, Qshine, 2013
- Member of organizing committee for an IT SUMMIT-2012, “IT Industry & Academia: Emerging Horizons”, School of Information and Communication Technology, Gautam Buddha University, Greater Noida, 10th February, 2012.
- Member of local organizing committee for Innovations and Advancements in Information and Communication Technology (ICIAICT), Gautam Buddha University, Greater Noida, India, 30-31 March 2012.
- Member in Organising Committee in the in COMMUNE Conference on Advancements in Communication, Computing & Signal Processing, 2011 (COMMUNE CACCS, 2011), jointly organize by COMMUNE and School of Information and Communication Technology, Gautam Buddha University, Greater Noida, Uttar Pradesh, INDIA, which is going to be held from April 16-17,2011

- Member of Organising Committee for National Conference on Information Technology, Operations Research and Computing (Interdisciplinary trends in Performance Modeling), Dau Dayal Institute of Vocational Education, Dr. B.R. Ambedkar University, April 10-12, 2004, Agra.
- Editorial Board Member and reviewer of various national & International Journals/Conferences.

Administrative Responsibility

- Time Table In Charge
- Warden, Mahamaya Girls Hostel
- RTI Coordinator, SOICT
- Course Coordinator for M.Tech. (CS)
- Poster competition coordinator in Abhivyanjana
- Active participation as committee member of House Allotment committee, Cultural committee, BoS Incharge, Review of ICT web Site for regular update, Expert Lecture Coordinator,
- Syllabus review and Course ware development
- Active involvement as coordinator and judge of various events of Shaurya utsav

Subjects Taught

- Mobile Computing
- Cellular Mobile Communication
- Data Networks
- Wireless Networks
- Wireless Technology
- Software Measurement and Estimation
- Research Techniques in ICT
- Java Programming

Research Work Supervised

- At Ph.D. level (In progress) (5)
- M.Tech Completed (13)

Professional Affiliations:

- Life Time Member of Bharata Ganita Parishad, Lucknow.
- Life Time Member of Indian Society of Technical Education (ISTE),
- Member of Institute of Electrical and Electronics Engineers (IEEE), Membership No. 91205234
- Member of Computer Society of India (CSI), Membership No. 01061965.
- Member of World Academy of Science, Engineering and Technology (WASET).
- Membership of International Association of Engineering (IAENG), Member ship No: 107237.
- Senior Member of International Association of Computer Science and Information Technology (IACSIT)

Research Interest:

- My research interest in a broad sense is to understand the performance of Wireless communication Networks (WCNs), traffic management in mobile computing include applied probability, Queueing theory, stochastic modelling, and performance analysis of computer and communication systems.

Date:**(Dr. Neeta Singh)**