

Karan Singh

RESEARCH/FACULTY ASSOCIATE

School of Information Technology

Gautam Buddha University, Greater Noida, 201308, U.P.

Office: +91-1744-230326

Mobile: +919935619399



Professional Qualification

- **Ph.D.** (Submitted) in Computer Science & Engineering on “**Load Management using Efficient Secure Mechanism in Multicast**” from Department of Computer Science and Engineering, Motilal Nehru National Institute of Technology, Allahabad, U.P., India.
- **M.Tech.** in Computer Science & Engineering with first division year 2006 from Department of Computer Science and Engineering, Motilal Nehru National Institute of Technology, Allahabad, U.P., India
- **B.Tech.** in Computer Science & Engineering with first division year 2004 from Department of Computer Science and Engineering, Kamla Nehru Institute of Technology, Sultanpur, U.P., India

Publications

International Journal

- **Karan Singh** with Rama Shankar Yadav “EFFICIENT JOINING AND LEAVING FOR RECEIVER DRIVEN MULTICAST CONGESTION CONTROL” accepted to publish in International Journal on Futuristic Computer Applications (JFCA), Harvard Press in Asia and North America.
- **Karan Singh** with Rama Shankar Yadav “OVERVIEW OF SECURE NETWORK SYSTEM” published in International Journal of Computer Sciences and Engineering Systems (IJCSES) , China, Vol. 1, No. 4, Nov, 2007, PP 259-265, ISSN: 0973-4406.
- **Karan Singh** with Rama Shankar Yadav, Ranvijai “A REVIEW PAPER ON ADHOC NETWORK SECURITY” published in International Journal of Computer Science and Security (IJCSS), Taiwan, Vol. 1, No. 1, July 2007, pp 52-69, ISSN: 1985-1533.

International Conference

- **Karan Singh**, Rama Shankar Yadav and Grish Kumar Gupta “MINIMIZATION THE EFFECT OF IGMP LEAVE LATENCY IN LAYERED MULTICAST CONGESTION CONTROL” published in the IEEE International Conference on

Advances in Computing, Control, and Telecommunication Technologies, (ACT 2009), India, 28th- 29th December 2009.

- **Karan Singh**, Rama Shankar Yadav and Grish Kumar Gupta “EFFECTIVE QUEUE MANAGEMENT FOR LAYERED MULTICAST” published in IEEE Bangalore Section - 18th Annual Symposium on Emerging Needs in Computing, Communication, Signals and Power ENC2SP 2009, Bangalore 29 August 2009.
- **Karan Singh** with Rama Shankar Yadav, Amit Sharma “ADAPTIVE MULTICAST SOURCE AUTHENTICATION” published in IEEE International Advance Computing Conference, march 2009 at Thapar University, Patiala, Punjab, India.
- **Karan Singh** with Rama Shankar Yadav, and Amit Kumar Sharma “ADAPTIVE APPROACH: HASH REDUNDANCY CONQUEST FOR MULTICAST SOURCE AUTHENTICATION” published in International Conference on Emerging Trends in Computing, at Kamaraj College of Engineering & Technology Virudhunagar, Tamil Nadu, INDIA, pp 341-245 during 8-10 January, 2009.
- **Karan Singh** with Rama Shankar Yadav, Manisha Manjul, Renu Dhir “BANDWIDTH DELAY QUALITYPARAMETER BASED MULTICAST CONGESTION CONTROL” published in International Conference on Advanced Computing and Communication (ADCOM 08) at Department of Information Technology, MIT, Anna University, Chennai, pp- 399-405, during 14th -17th December 2008.
- **Karan Singh** with Rama Shankar Yadav “EFFICIENT AND SECURE MULTICAST COMMUNICATIONS” published in Proceedings of International Conference on Computer Networks and Security (ICCNS 08), September 27-28, 2008, pp 97-102, published by VIT, Pune, ISBN 978-81-906198-1-3.
- **Karan Singh** with Rama Shankar Yadav “A SURVEY ON MULTICAST CONGESTION CONTROL” published in Proceedings of Third Innovative Conference on Embedded Systems, Mobile Communication and Computing (ICEMC²) 2008, August 11-14, 2008, pp 186-197, Published by Macmillan India Ltd., ISBN 023-063-618-7
- Karan Singh with Rama Shankar Yadav, A.R. Shivakumaran “ENHANCED COVERAGE AREA OF AN ACCESS POINT USING MULTIHOP” published in proceeding of International Conference on Advances in Information and Communication Technology (ICICOT07), Manipal, Dec, 2007, pp- 50-58, ISBN 0730-63437-0.
- Karan Singh with Rama Shankar Yadav, A.R. Shivakumaran “MULTI-HOP WIRELESS LOCAL AREA NETWORK” published in proceeding of International conference on information Technology, at Haldia institute of Technology, Haldia, 19-21 March 2007, PP. 238-245, ISBN: 81-89766-74-0.
- **Karan Singh** with R. S. Yadav, Ragav Yadav, A.R. Shivakumaran “ADAPTIVE MULTICAST CONGESTION CONTROL” published in proceeding of International conference on information Technology, at Haldia institute of Technology, Haldia, 19-21 March 2007, PP. 299-306, ISBN: 81-89766-74-0.

National Symposium/Workshop/Conference

- **Karan Singh** with Rama Shankar Yadav, Rudra Pratap Ojha “RELIABLE MULTICAST AUTHENTICATION” published in proceeding of National Conference on Architecturing Future IT systems (NCAFIS-2008) Devi Ahilya university Indore, 17-18, October 2008.
- Karan Singh with Manisha Manjul, Renu Dhir “BANDWIDTH DELAY QUALITY PARAMETER BASED MULTICAST CONGESTION CONTROL” published in proceeding of Conference on Mobile & Pervasive Computing (MPComp2008) at Velammal Engineering College, Chennai, pp- 3-9, 7-8 August 2008.
- Karan Singh with Md. Arif, Rama Shankar “SURVEY ON DELAY TOLERANT NETWORK” published in proceeding of National conference on Emerging Trends in Computer Science and Technology (ETCSIT) at Al-Falah School of Engineering & Technology, Faridabad, Haryana 23 April 2008.
- **Karan Singh** “LIBRARY AUTOMATION WITH SECURITY CONSTRAINTS” published in proceeding of Computer Society of India, National Workshop on ICT Application in Library Automation (NWICTA-2007), AAIU Nov. 3rd 2007.
- **Karan Singh** “OVERVIEW OF ROUTING METRICS FOR WMN CONNECTED TO GLOBAL NETWORK” published in proceeding of National Symposium on Latest Development in Computer Technology, at ISDC, Allahabad, 4-5 Feb, 2007.

Attend Workshop/Seminar/Symposium

- IEEE International Advance Computing Conference, at Thapar University, Patiala, Punjab, India, March 2009.
- International Conference on Computer Networks and Security (ICCNS 2008) at Pune, India.
- Information and Communication Technology (ICICOT2007) at Mangalore, India.
- International Conference on Information Technology(ICIT07) at Haldia, India
- National Conference on Architecturing Future IT systems (NCAFIS-2008) at Ferzabad, India.
- National Workshop on ICT Application in Library Automation (NWICTA-2007) at Allahabad, India.
- National Symposium on Latest Development in Computer Technology (NSLDCT-2007), Allahabad, UP, India.
- A one day IBM seminar at MNNIT Allahabad, August 2008.
- Workshop Entitled “Matlab Range of Software” at MNNIT, Allahabad, January 2008.

- One day international workshop entitled “Information and Communication Technology” at Center for Computer Science, ECC, Allahabad, August 2007.
- One day Microsoft Research program entitled “Microsoft Tech Vista “ at New Delhi, October, 2007.
- A Short Term course entitled “Energy Management” at MNNIT Allahabad, March 2006.

Achievements

Awards

- IEEE Certificate for *Member-Get-A-Member (MGM)* 2008.
- *Biography* nominated to publish in “Marquis Who’s Who in the World” edition November 2008
- C-DAC- CST exam qualified 2005 and 2006.
- First position in *short put* at KNIT, Sultanpur, UP, 2004.
- Gate Qualified 2003

Technical Committee Member

- *Reviewer* in International Conference on Ultra Modern Telecommunications (ICUMT 2009), St. Petersburg, Russia.
- *Reviewer* in International Journal of Computer Systems Science and Engineering, Australia.
- *Associate Editor* of International Journal of Computer Science and Information Security.
- *Associate Editor* of International Journal of Secure Digital Information Age, India.
- *Reviewer* of International Journal of Network Security, Taiwan.

Organize Committee Member

- Invited to organize *workshop* as TPC Chair *IEEE International Workshop on Time Critical Applications (IWTCA' 09)* with conjunction of International Conference on Ultra Modern Telecommunications (ICUMT 2009), October 2009, St. Petersburg, Russia
- Organize member of two week Summer Programme for Faculty Development Programme on *Curriculum Enhancement in Design of Embedded Systems and its Applications* at Department of Computer Science & Engineering Motilal Nehru National Institute of Technology Allahabad, 16-27 June 2008.

Professional Skills

- **Operating System:** Window9x/2000/XP, Linux
- **Programming:** C and C++.
- **Methodologies:** NS-2, TCL, PHP, MySQL, HTML, and UML.
- **Server:** Apache Server

Teaching Experience

- **Masters Level**

- ✓ I am Teaching “Networking Protocols” for M.Tech ICT in School of Information Technology, Gautam Bhudda University, Greater Noida, U.P., India from 13th January, 2010 to till date.

- **Graduation Level**

- ✓ I have taught “Computer Programming” B.Tech Ist Year in Motilal Nehru National Institute of Technology, Allahabad, UP, India from January 2008-May 2008.

- **Expert Talk**

- ✓ I have delivered an expert talk on “Security in Embedded System” for Faculty Development Programme on Curriculum Enhancement in Design of Embedded Systems and its Applications at Department of Computer Science & Engineering Motilal Nehru National Institute of Technology Allahabad, 16-27 June 2008.

Professional Affiliations

- Computer Society of India(CSI), Secunderabad, India -00166223
- Cryptology Research Society of India (CRSI), Kolkata, India
- Institute of Electrical and Electronics Engineers (IEEE), USA-80615435
- International Association of Computer Science and Information Technology (IACSIT), Singapore - 80331804
- Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering (ICST), America-5103192082
- International Association of Engineers (IAENG), Hong Kong-.101832
- Association of Computer Electronics and Electrical Engineers (ACEEE), India-7000124
- Internet Society(ISOC) , USA- 9256

Personal Details

Father's Name: Sri Phool Singh
Gender: Male
Date of Birth: 20 May 1981
Nationality: Indian
Language Known : Hindi, English
Marital Status: Single
Passport No.: F9865070

Correspondence address:

H.No 640. Sainink Colony,
Roorkee, Haridwar – 247667
Mobile: 09305571101

Permanent Address

Vill. Lathar Deva Hoonn
P.O. Jhabrera, Haridwar
Uttranchal – 247665
E-mail: KARANCS 12@GMAIL.COM

Date: January, 2010

KARAN SINGH