

Sushil Kumar

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Academic Qualification(s):

- Pursuing **Ph.D. (Computer Science)** from Uttarakhand Technical University since 2014.
- **M.Tech** (Computer Science and Engineering) from Graphic Era University, Dehradun with **First division**, in June 2012.
- **MCA** from IGNOU with **First division**, in December 2007.
- **BCA** from HNB Garhwal University, Srinagar Uttarakhand with **First division**, in 2004.

Achievement(s):

- **UGC - NET** qualified in **Computer Science and Application** conducted by UGC in June 2012.
- **GATE** qualified in **Computer Science and Information Technology** in 2013.

Organizational Experience:

- Serving as an **Assistant Professor** in Computer Science Department of Uttarakhand Sanskrit University, Haridwar **from December 2016 to till Date**.
- Worked as an **Assistant Professor** in Computer Science & Engineering Department of Graphic Era University, Dehradun **from Aug 2008 to December 2016**.

Research Paper Published in Journals:

1. **Sushil Kumar**, Deepak Singh Rana, “Various Dynamic Load Balancing Algorithms in Cloud Environment: A Survey”, Paper published in *International Journal of Computer Application* (0975-8887), Volume 129-No.6, November, 2015.
2. **Sushil Kumar**, Deepak Singh Rana and Sushil Chandra Dimri, “Analysis and Implementation of AODV Routing Protocol against Black Hole Attack in MANET”, Paper published in *International Journal of Computer Application* (0975-8887), Volume 124-No.1, August 18, 2015.
3. **Sushil Kumar**, Deepak Singh Rana and Sushil Chandra Dimri, “Fault Tolerance and Load Balancing Algorithm in Cloud Computing: A Survey”, Paper published in *International Journal of Advanced Research in Computer and Communication Engineering*, Vol 4, Issue 7, ISSN: 2278-1021, July 2015.
4. **Sushil Kumar Chamoli**, Santosh Kumar, Deepak Singh Rana, “Performance of AODV against Black Hole Attacks in Mobile ad-hoc Networks” Paper published in *International Journal of Computer Technology & Applications*, Vol 3 (4), 1395-1399, ISSN: 2229-6093, 2012.
5. Sushil Chandra Dimri, **Sushil Kumar Chamoli** and Durgesh Pant, “Delay based traffic distribution of heavy traffic on k-paths to achieve the load balancing and to minimize the mean system delay in MANET”, published in *International Journal of Computer Application* (0975-8887), Volume 63–No.22, February 2013, Impact factor 0.814.
6. Sushil Chandra Dimri, **Sushil Kumar Chamoli** and Anuj Dimri, “A new dynamic programming approach for scan conversion of a circle”, published in *International Journal of Computer Application* (0975 – 8887)), Volume 50– No.17, July 2012, Impact factor 0.814.
7. Deepak Singh Rana, Naveen Garg, **Sushil Kumar Chamoli**, “A Study and Detection of TCP SYN Flood Attacks with IP spoofing and its Mitigations” published in *International Journal of Computer Technology & Applications*, Vol 3 (4), 1476-1480, ISSN: 2229-6093, 2012.
8. Santosh Sharma, Ajay Rawat, **Sushil Kumar Chamoli**, “Anycasting – One-To-One-Of-Many Communication Method in IPV6”, published in *IJCSET*, November 2011, Vol 1, Issue 10, 655-660 ISSN 2231-071.

Conferences/ Seminar/Workshop:

1. Participated in Workshop on “**Statistical Techniques in Research**”, organized by School of CS & IT, Uttarakhand Open University jointly with IT Cell, Doon University, Dehradun Uttarakhand on 22 December, 2103.
2. Participated in National Conference on “**Leveraging Technologies for Re-scripting Higher Education**”, Organized by Doon University, Dehradun on 16th November, 2013.
3. Participated in a one day Workshop – “**Hack-O-Mania 1.0 – Ethical Hacking and Cyber Security**” conducted by i3indya Technologies in association with Techkriti 2013, IIT Kanpur at Graphic Era University, Dehradun on 15th April, 2013.
4. Participated in two days’ National Conference on “**Network Security Issues and Resource Optimization – 2012**” Organized by Department of Computer Applications, Graphic Era University, Dehradun on 27-28 October, 2012.
5. Participated in two days’ workshop on “**Network Simulator 2 (ns-2)**” organized by Graphic Era University, Dehradun on February 25-26, 2012.
6. Participated in 7th **Uttarakhand State Science & Technology Congress – 2012** as the member of Audio-visual and venue in charge committee on 2012.
7. Participated in Regional Workshop on “**Image & signal Processing using MATLAB**”, by CSI (Dehradun) at Graphic Era University, Dehradun on 30 April 2011.
8. Attended Seminar on “**Powers of Algorithm – 2010**” Organized by Department of Computer Applications, Graphic Era University, Dehradun on 8 May 2010.
9. Participated in Workshop on **Linux** held at Graphic Era University, Dehradun on 13 March 2010.

Teaching Interests (Subjects taught at UG/PG Level):

- Java Programming.
- Advance Java Programming.
- Compiler Constructions.
- Operating System - Unix/Linux, shell programming.
- Programming in ‘C’ language.
- Object Oriented Programming using C++.
- Data Structures using C & C++.

Technical Skills:

Programming Language: Java, Servlets, JSP, JDBC, C, C++, Java Script, HTML, PHP, Android Programming.

Operating System : UNIX/Linux, Windows.

Data Base : Oracle, MySQL.

Servers : Tomcat container, Weblogic8.1, JBoss.

Tools : Eclipse, Hibernate, NetBeans.

Simulator : CloudSim Simulator, NS2 Simulator, ONE Simulator.

Research Interests:

- Cloud Computing
- IoT
- Security in Cloud and Ad Hoc network