

Dr. SURJEET SINGH

Associate Professor

Department of Computer Science
Gandhi Memorial National (P.G.) College
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Summary

More than 15 years of teaching experience including fair exposure to C, C++, Data Structures, Software Engineering, Operating System, Database Management System, Networking, System Analysis and Design, Computer System Architecture etc.

Objective

- To build long-term, trusted, and valuable relationships with our Organization and Students.
- To create maximum value for our Organization and Students by developing innovative ideas and approaches.

Educational Qualification

- **Ph.D. (Computer Science)** from Department of Computer Science & Application, Kurukshetra University, Kurukshetra.
- **M.Phil. (Computer Science).**
- **M.Tech (Computer Science).**
- **M.Sc. (Computer Science).**
- **B.Sc. (Non-Medical):** Kurukshetra University, Kurukshetra.

Work Experience

Total Work Experience is more than 15 years as under:

- Presently working as **Associate Professor** in Computer Science at Gandhi Memorial National (P.G.) College, Ambala Cantt, Haryana, (India) against grant-in-aid post.
- Worked as **Lecturer** in M.C.A Department of G.V.M. Institute of Technology & Management, Sonapat, Haryana (India).

Research Papers

- “Automatic Test Case Generation Using Genetic Algorithm”, International Journal of Scientific & Engineering Research (IJSER), Volume 4, Issue 6, June 2013, ISSN 2229-5518, Impact Factor-1.4

- “Automatic Test Suit Generation With Genetic Algorithm”, International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), Vol-4, Issue-4, March-May 2013, ISSN (Print): 2279-0047, ISSN (Online): 2279-0055, Impact Factor-1.237
- “Software Testing Automation Model Using Genetic Algorithm”, International Journal of Advanced Research in Computer Science and Software Engineering, (IJARCSSE) Vol-3, Issue 5, May - 2013, Impact Factor-2.080
- “Automatic Test Case Generation Using Genetic Algorithm”, International Journal of Scientific & Engineering Research (IJSER), Volume 4, Issue 6, June 2013, ISSN 2229-5518, Impact Factor-1.4
- “Automatic Test Suit Generation With Genetic Algorithm”, International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), Vol-4, Issue-4, March-May 2013, ISSN (Print): 2279-0047, ISSN (Online): 2279-0055, Impact Factor-1.237
- “Software Testing Automation Model Using Genetic Algorithm”, International Journal of Advanced Research in Computer Science and Software Engineering, (IJARCSSE) Vol-3, Issue 5, May - 2013, Impact Factor-2.080
- “A Practical Strategy for Efficient Combinatorial Software Testing” 1st International Conference on Mathematics and Soft Computing (Application in Engineering) (ICMSCAE) in Collaboration with Indian Society of Information Theory & Applications (ISITA) at NC College of Engineering, Israna, Panipat, 4-5 December 2010.
- “A Testing Methodology Employing Software Testing Metrics”, UGC Sponsored 2 Days National Seminar on "Prospects of IT: 2010 at Hindu Girls College, Jagadhri, September 14, 15, 2010.
- “Coverage Metrics for Measuring the Effectiveness of Test Suites”, National conference on emerging trends in information technology NCETIT-2010 at Doaba College Jalandhar, August 28, 2010.
- “Breeding Software Test Cases for Pairwise Testing Using GA”, International Journal of Computer Science and Information Technology, Volume 10 Issue 4, April 15, 2010.
- “Optimization of Automated GUI Testing Using Genetic Algorithm”, AICTE Sponsored national level seminar on "CHALLENGES IN SOFTWARE ENGINEERING RESEARCH AND PRACTICES" at N.C. College of Engineering, Israna, Panipat, March 31, 2010.
- “GUI Testing Using Software Testing Tools-Optimization”, National Conference on “Next Generation Computing” Gurgaon Institute of Technology & Management Gurgaon, March 20, 2010.
- “Optimization of GUI Testing Using Software Testing Tools”, one day national seminar on “New Science Horizons” sponsored by Higher Education Commissioner, Haryana, organized by Guru Nanak Khalsa College, Yamuna Nagar, February 24, 2010.
- “Automation Testing of Graphical User Interface”, Punjab Commerce & Management Association PCMA 6th International Conference on “Business Challenges & Opportunities in South Asia-Punjab University Chandigarh, October 24-25, 2009.

- “A Literature Study of Software Testing and the Automated Aspects thereof”, in International Conference on Wireless Network and Embedded Systems at Chitkara Institute of engineering & Technology, Punjab (India), October 23-24, 2009. “Application of Genetic Algorithm in Testing”, UGC Sponsored 1 Day National Seminar on Emerging Trends in Computer & IT, G.M.N (P.G.) College, Ambala Cantt., March 07, 2009.
- “Mutation Testing in Database Systems”, International journal of Information Technology and Knowledge Management, Volume 2, number 1, January-June 2009.
- “Automatic Test Suites Generation for Database System Using Genetic Algorithm”, AICTE sponsored national level seminar at N.C. College of Engineering, Israna, Panipat, July 14, 2008.
- “Impact of Genetic Algorithm in Testing”, National Seminar on Emerging Challenges in Commerce and Management, Sponsored by Higher Education Department, Haryana held at Government College for women, Karnal, March 18-19, 2008.
- “Automatic Test Suites Generation Employing Genetic Algorithm”, AICTE Sponsored national level seminar on "INFORMATION TECHNOLOGY: SOFTWARE RELIABILITY" N.C. College of Engineering, Israna, Panipat, February 10, 2008.
- Research paper published in Journal of Scientific Research (UGC care list) titled “Performance evaluation of machine learning techniques for mustard crop yield prediction from soil” ISSN no 0447-9483.
- Research paper published in Journal of Gyan Vimarsha titled “Efficient software testing by creating optimized test data pool using genetic algorithm” ISSN no 2581-6845.
- Research paper published in edited book “Banking, Insurance and Financial Services titled “E-Payment System: Benefits and Modes” ISBN no 978-81-19079-07-0 dated Feb 2023.

Conferences/Workshops/Courses/Trainings

- Participated in 3-weeks UGC Sponsored refresher course in Information Technology, organized by Department of computer Science & Application and Academic Staff College, Kurukshetra University, Kurukshetra by obtaining Grade “A” from June 10, 2010 to June 30, 2010.
- Participated in 4-weeks Orientation Course sponsored by University Grant Commission, Organized by Academic Staff College, Kurukshetra University, Kurukshetra by obtaining Grade “A” from May 22, 2009 to June 18, 2009.
- Participated in one day national seminar on “India’s Security Concerns in the Context of 26/11 Terrorist Attacks on Mumbai” organized by GMN (PG) College, Ambala Cantt, sponsored by Higher Education Commission, Haryana on March 28, 2009.
- Participated as a member in three days EDUSAT workshop on “Content Development for EDUSAT program in Computer Science” held at government P.G. College, Ambala Cantt from March 23, 2009 to March 25, 2009 sponsored by Department of Higher Education, Haryana.
- Participated in one day national seminar on “Relevance of Basic Science in Higher Education” organized by GMN (PG) College, Ambala Cantt, sponsored by Higher Education Commission, Haryana on March 6, 2009.
- Participated in two day national seminar on “Opportunities in IT-Sector” organized by Sanatan Dharm College (Lahore), Ambala Cantt, sponsored by University Grant Commission, on March 02-03, 2009.
- Completed a short term program on script writing conducted by the “Educational Television” department, organized by National Institute of Technical Teachers’ Training and Research, ministry of Human Resource Development, Government of India from

November 03, 2008 to November 07, 2008.

- Participated in 2-weeks MHRD sponsored summer school on Distributed System & Networks, organized by the Department of Computer Engineering, National Institute of Technology, Kurukshetra from June 23, 2008 to July 4 2008.
- Completed 4-weeks orientation course organized by Kurukshetra University, Kurukshetra from 22 May 2009 to 18 June 2009.
- Completed 3-weeks refresher course on IT (computer science) organized by Kurukshetra University, Kurukshetra from 10 June 2010 to 30 June 2010.
- Completed 3-weeks refresher course on IT (inter disciplinary) organized by H.P. University, Shimla from 07 July 2014 to 26 July 2014.
- Completed 5 day faculty development on E-Content development organized by GMN College, Ambala Cantt. from 30 May 2020 to 3 June 2020.
- Completed one week National level faculty development programme on MOODLE organized by GMN College, Ambala Cantt. from 27 April 2020 to 1 May 2020.
- Completed National level faculty development programme on organized by Guru Ahgad dev teaching learning centre SGTB Khalsa college University of Delhi on 2 May 2020.
- Completed one week Short term course on academic writing organized by UGC-HRD center of Bhagat Phool Singh Mahila Vishwavidyalaya from 15 Jan 2021 to 21 Jan 2021.

Achievements during Professional life

- Member of the Editorial board of Science Journal of Punjab University, Chandigarh.
- Member of the Editorial board of **International Journal of Computer Science Technology (IJCST)**.
- Member of International Association of Engineers (**IAENG- No. 108741**).
- Member of **Internet Engineering Task Force (IETF)** California, USA
- Restructuring/reframing the syllabus of undergraduate classes for all aided and government colleges of Haryana (India).
- Got sanctioned and Organized One Day National Level Seminar on “**Emerging Trends in Computer & Information Technology**” sponsored by Department of Higher Education, Government of Haryana under the scheme “Human Resource Development of the teachers and the taught and the supporting staff in the Government and staff of the headquarter in the State of Haryana”, at G.M.N. (PG) College, Ambala Cantt, as a **co-ordinator** on March 7, 2009.
- Invited as a member of advisory committee at APIIT SD India, as an expert to validate and benefit the research & academic on October 18, 2008.
- Deliver lectures on EDUSAT (Education through Satellite) at HUB, UTKARSH Society, Panchkula for Department of Higher Education, Haryana (India) in the year 2009.
- Invited as a resource person to deliver lectures in refresher course conducted by various Sainik Schools in India.
- Got appreciation letter from Deputy Commissioner, Karnal for developing software for Panchayati Raj Election.
- Nominated as Convener/Member in following committee by the college authorities during the professional life:
 - Infrastructure & Learning Resources
 - General purchase and Verification of quantity & quality of goods purchased by the Institution
 - Timetable & Workload

- Placement & Career Counseling
- Sports Council.
- Discipline.

Personal Information

Date of Birth: 08/11/1976

Sex: Male

Marital Status: Married

Languages Known: Hindi, English

Dr. SURJEET SINGH