

BIO-DATA

Prof.(Dr.) AJIT SINGH, Ph. D, MIEEE, MIAENG

RESPONSIBILITIES HELD:

Professor of Computer Science & Engineering, Head of the CSE Deptt
Member of Institute Academic Council, E- Cell, Social and Communal
awareness club, Member- Disciplinary Committee; College internal
complain committee; Registrar work of College

S/o Shri Sukhpal Singh, E-4, BTKIT Residential Campus Dwarahat,
Almora-263653, Uttarakhand



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LinkedIn URL: <https://www.linkedin.com/in/profasingh/>

Google Scholar Link: <https://scholar.google.com/citations?user=MEEnhzikAAAAJ&hl=en>

ORCID ID: <https://orcid.org/0000-0002-5532-2803>

Scopus id: <https://www.scopus.com/authid/detail.uri?authorId=57211781639>

OBJECTIVE OF MY CAREER:

To work towards the vision of the institution for attainment of excellence and through unwavering commitment strive to develop the human resource in terms of enhancement of individual and team skills through focused training, development programs, regular appraisals, performance based incentives and rewards and maintain the dignity of the post and organization by behaviour and conduct.

CORE COMPETENCIES: (a) Leadership skills; (b) Strategic planning; (c) Collaboration; (d) Instructional leadership; and (e) Administrative and managerial skills.

PROFESSIONAL DATA:

Designation	Period	Grade	Name of Employer
Lecturer	Aug'99- July'03=04 yrs	8000-275-13500	Invertis Institute of Management Studies, Bareilly
Lecturer [Sr. Scale]	July'03- July'04=01 yrs	10000-325-15200	IMS, Dehradun
Reader	July'04- March'06= 01 yrs 08 months	12000-420-18300	IET, Dr. B.R. Ambedkar University, Agra
Assistant Professor	March'06- March'07=1yr	12000-420-18300	Adseh Institute of Engg. & Technology, Faridkot
Assistant Professor	March'07 to Nov'07= 8 months	12000-420-18300	RGEC Meerut
Assistant Professor	Dec'07 to Aug'09=1yr 06 months	12000-420-18300	IET Alwar (Raj)
Associate Professor	Sep'09 to Sep'15 =6 yrs	37400-67000 with AGP 9000	BTKIT ,Dwarahat, Almora(Govt Institute)
Professor	Sep'15 to June 2023	37400-67000 with AGP 10000	BTKIT ,Dwarahat, Almora(Govt Institute)
Director	June 2023to till date	37400-67000 with AGP 10000	NPSEI, Pithoragarh(Govt Institute)

No of Degree Projects supervised since inception of my career: 40

MEMBERSHIP IN PROFESSIONAL BODIES:

No	STATUS OF THE MEMBERSHIP	MEMBERSHIP NO	ADDRESS OF THE PROFESSIONAL BODY
1	MEMBER	94929511	THE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
2	MEMBER	129073	INTERNATIONAL ASSOCIATION OF ENGINEERS

AREAS OF COMPETENCE AND RESEARCH INTEREST:

ARTIFICIAL INTELLIGENCE MACHINE LEARNING

IOT DEEP LEARNING

PHD GUIDED:

Name of Programme including the university awarding the degree	Topic of the Thesis	(Main/Co supervisor)	Year & Status
Ph.D (CSE) UTU Dehradun	Workflow Scheduling Algorithm to tackle Scheduling problems in Cloud Environment	Main Supervisor	2015 Under Progress
Ph.D (CSE) UTU Dehradun	Advances Biometric Security Using Multibiometric Fusion Approach	Main Supervisor	Thesis Submitted
Ph.D (ECE) UTU Dehradun	Some Investigation on Smart Antenna System	Co-supervisor	Awarded in August 2020

Details of SCI Publication(s).

S.No.	Title	Journal name & Publisher	Page, year
1	Cloudsim: simulator for cloud computing infrastructure and modeling	Procedia Engineering Volume 38	Pages 3566-3572 Year-2012
2	Novel circularly polarized dielectric resonator antenna for microwave image sensing application	MOTL, Wiley (SCI indexed)	P 1-7, 2019
3	Dual-port MIMO dielectric resonator antenna for WLAN applications	International Journal of RF and Microwave Computer-Aided Engineering John Wiley & Sons, Inc.	P 1-11, 2019
4	Circularly polarized V-shaped dielectric resonator antenna	International Journal of RF and Microwave Computer-Aided Engineering Wiley	P 1-10, 2019
5	Quantum-based Rivest–Shamir–Adleman (RSA) approach for digital forensic reports	Modern Physics Letters B World Scientific Publishing Company	2020
6	Multiple input multiple output dielectric resonator antenna with circular polarized adaptability for 5G applications	Journal of Electromagnetic Waves and Applications Taylor & Francis	P 1-15,2020
7	“Face and Age Recognition using 3 DWT and rotational local binary pattern with radial basis function SVM method”	IJEEE (International Journal of Electrical Engineering and Education)	DOI: 10.1177/0020720920988489, Sage Publishers, February 2021

PATENT FILED:

Patent Title	Year
“ELBP Based Face and Age Recognition”	19 th November 2021, Application number: 202111049752
" Development of IoT based Part Inspection System"	2020
“IOT Based Health Management System and Method for the Same”	2018

SUBJECTS TAUGHT AT UG/PG LEVEL

S.NO	NAME OF THE SUBJECT	FREQUENCY	RESULT PRODUCED
1	ARTIFICIAL INTELLIGENCE	20	80 – 95% (irrespective of nature of question paper and students)
2	MACHINE LEARNING	10	
3	DATA MINING	12	
4	GENETIC ALGORITHMS	10	
5	COMPILER DESIGN	11	

EDUCATIONAL QUALIFICATIONS:

Qualification	Year of Passing	Name of the Institute / University
Ph.D(CS&E)	2012	Rajasthan
M.Tech(Information System)	2003	NSIT, New Delhi Affiliated to Delhi University
B.Tech (CS&IT)	1999	M.J. P. Rohilkhand University Bareilly
Intermediate	1995	KV No2 ASC, Bareilly
High School	1992	Bishop Conrad Inter College, Bareilly

PUBLICATIONS IN INTERNATIONAL JOURNAL:

1. Jaishree Jain, **Ajit Singh** "Structure of CloudSim Toolkit with Cloud" International Journal of Engineering and Advanced Technology (IJEAT), Vol.8,pp 4644-4649,August 2019
2. J.Jain, **A.Singh**" Robust & Secure Image Reverse Watermarking using Data Encryption Standard & RNS" International Journal of Computer Sciences and Engineering, Vol. 7,pp 18-23, April2019
3. **Dr Ajit Singh**, Kulvinder Singh" Securing Cloud Resource Allocation Requests with Tls Connections Mandate and Improving DH Key Exchange with additional Security Factor" International Journal of Engineering Research in Computer Science and Engineering Vol 5 Feb 2018.
4. Meenakshi Upreti, **Ajit Singh** "Reduction of Computational Complexity in Serloc Localization Using Robust Ad-Hoc Sensor Routing" International Journal for Scientific Research & Development Vol. 5 pp 973-978, Dec 2017.
5. Jaishree Jain, **Dr Ajit Singh**, "A Survey on Security Challenges of Healthcare Analysis Over Cloud", International Journal of Engineering Research & Technology (IJERT),Vol.6 pp 905-912, April 2017.
6. **Dr. Ajit Singh** Er. Anuj Aggarwal,Dr. Rajesh Verma," Resource Allocation Algorithm in Distributing System Using Ant Colony Optimization-A Review" International Journal of Emerging Technologies in Engineering Research(IJETER),Vol.4 pp29-33 August 2016.
7. SS Dwivedi, **Ajit Singh**, S Mishra " Analyzing Multi-Processors using AFER" International Journal of Computer Applications, Vol.149 2016
8. Kailash Chandra Sethwal , **Dr. Ajit Singh** and Gaurav Pareek, "QoS Based Task Scheduling Heuristic in Grid Computing using Fault Tolerance," HCTL Open International Journal of Technology Innovations and Research (IJTIR),Vol .12, pp 1-8, December 2014.
9. Ashish Kathait and **Ajit Singh**, "Automated Prediction of Human Behavior System for Career Counselling of an Individual through Handwriting Analysis/Graphology," HCTL Open International Journal of Technology Innovations and Research (IJTIR),Vol .12, pp 1-25, December 2014.
10. Sumit Prakash , **Ajit Singh** and PankajSingh Sammal,"Implementation of Distributed Multi Agent System using JADE Platform,International Journal of Computer Applications, Vol.105,No.1, pp 1-19, November 2014.
11. Sumit Prakash and **Ajit Singh**, "A SURVEYOF IMPLEMENTATION OF DISTRIBUTED MULTI AGENT SYSTEM USING THE JADE TECHNOLOGY," International Journal of Advanced Technology & Engineering Research (IJATER) International Conference on Research in Science, Engineering & Management (IOCRSEM 2014), pp71-75, oct.2014
12. Ashutosh Bhardwaj and **Dr Ajit Singh**, "The Performance and Simulative Analysis of Routing Protocols with different Mobility model," International Journal of computer Science and Information Technology,Vol 5 , No2
13. Mr Hemant kumar and **Dr Ajit Singh**, "An efficient Implementation of Digital Signature Algorithm with SRNN Public Key Cryptography,"IJRREST: International Journal of Research Review in Engineeirng Science and Technology, Vol-1,No 1, pp 54-57, June 2012.

14. Vaisla Goswami, **Ajit Singh**, "VGS algorithm: an efficient deadlock prevention mechanism for distributed transactions using pipeline method", International Journal of Computer Applications, Vol 46 pp 1-9 Mya 2012.
15. Tarun Goyal, **Ajit Singh** and Akansha Agarwal, "Cloudtarun: Application Simulated over GAE using Android Emulators, International Journal of Computer Applications, Vol. 57 Jan 2012
16. Ajit Singh, Dr D. C Upadhyay and Hemant Yadav, "Data Warehouse Processes: An Multidimensional Meta Modeling Framework," IFRSA International Journal of Data Warehousing & Mining, Vol. 1, No. 1, pp 1-10, August 2011.
17. Ajit Singh, Dr D. C Upadhyay and Hemant Yadav, "The Analytical Data Warehouse: A sustainable approach for Empowering institutional Decision Making," International Journal of Engineering Science and Technology (IJEST), Vol. 3 ,No. 7, pp 6049-6057, July 2011.

International Conferences:

1. Bhanu Prakash Lohani ; Ajit Singh ; Vimal Bibhu A hybrid optimization approach using Evolutionary Computing and Map Reduce Architecture International Conference on Advances in Computing and Communication Engineering (ICACCE) Tamil Nadu, April 2019.
2. Kulvinder Singh, Ajit Singh, Memcached DDoS Exploits: Operations, Vulnerabilities, Preventions and Mitigations Proceedings of the IEEE 3rd International Conference on Computing, Communication and Security (ICCCS) , Nepal, October 2018.
3. Yogesh Kothiyari ,Ajit Singh, An Account Of Multi-Neutral Workflow Procedure For Cloud Situation Proceedings of the IEEE 3rd International Conference on Computing, Communication and Security (ICCCS) , Nepal, October 2018.
4. Sonal, Ajit Singh, Review on multibiometrics: classifications, normalization and fusion levels Proceedings of International Conference on Advances in Computing and Communication Engineering (ICACCE) Paris August 2018.
5. Oshin Misra, Ajit Singh, An approach to face detection and alignment using hough transformation with convolution neural network, 2nd International Conference on Advances in Computing, Communication, & Automation (ICACCA)(Fall) September 2016.
6. Rajendra Singh Bisht and Ajit Singh, Comparison and performance Analysis of Hierarchical and Non Hierarchical Routing Techniques in Wireless Sensor Network . In the proceedings of the International conference on Advances in Computing and Communication Engineering(ICACCE-2014) , BTKIT, Dwarahat, Feb 2014
7. Tarun Goyal, Ajit Singh, Aakanksha Agrawal, Cloudtarun Application deployed over GAE and android emulator in the proceedings of 2nd IEEE International Conference on Parallel, Distributed and Grid Computing, Solan December 2012.
8. .Tarun Goyal,Ajit Singh and Akansha Agarwal, Cloud Building on core -i3 using VMware Workstation . Proceedings of the International Conference on Pervasive Computing and Communication(PCC) ,2012.
9. Anoop Kumar Srivastava and Ajit Singh, VEML: A Language for Developing Multi Agent Systems. In Proceedings of 2nd International conference on soft computing, IET, Alwar (Raj), Nov.8-10 2008.
10. Ajit Singh, D.C. Upadhyay, Categorization, Clustering, and Association Rule Mining on WWW. In Proceedings of 2nd International conference on soft computing, IET, Alwar (Raj), Nov.8-10 2008

National Conferences:

1. Ajit Singh, D.C. Upadhyay, Hemant Yadav. Innovative Data Management Technique for current trends. In Proceedings of National conference on Information Technology for Business Transformation (ITBT09) at AKG Engg College, April 10-11 2009.
2. Ajit Singh, D.C.Upadhyay, Hemant Yadav. Intelligent Agents: An Efficient Middleware Software Solution for wireless Sensor Networks.In Proceedings of National conference on Recent Trends in Communication and Electronic Design, IET, Alwar (Raj), March. 7 2009.
3. Ajit Singh, D.C.Upadhyay, Manoj Kr. Rawat. Exploring New Application Areas in this Recession: Economic Downtime. In Proceedings of National Conference on "Recession in Global Economy: Impact on Business including IT Sector". March 6-7 2009.
4. Ajit Singh, D.C.Upadhyay, Hemant Yadav. Web Service Technology: A Distributed Warehouse Model. In Proceedings of National Conference on "Impact of IT on Society" at DAV College Amritsar(Punjab) on 28feb-1 March09.pact of IT on Society-Emerging Trends & Issues" Feb. 28-March 1 2009.

5. Ajit Singh, Ashish Vashishtha. Semantic Web Services: An analysis of Technologies. In Proceedings of National Conference on "Impact of IT on Society" at DAV College Amritsar(Punjab) on 28Feb-1 March09. pact of IT on Society-Emerging Trends & Issues" Feb. 28-March 1 2009.
6. Ajit Singh, D.C. Upadhyay. Grid technology: A tool for Web Intelligent System. In Proceedings of 5th National Conference on "Advancement of Technologies: Soft Computing". Jan. 24-25 2009.

Seminars:

1. An article named "Data Mining: An innovative tool for Biomedical documents" in the national seminar on Biomedical Engineering held at AIET Alwar, in year 2008.
2. An article named "E: Governance: The future of governance" in the national seminar on India's Promise in Asian Century: Vision & Action held at RBMI, Bareilly, in year 2006.
3. An article named "Why IT, Why now-In Outsourcing" published in the national seminar on BPO held at RBMI, Bareilly in year 2004.
4. An article named "CDMA Technology in Mobile Communication" in the international seminar held on Success Mantra for IT industry in Next decade at RBMI, Bareilly in year 2003
5. An article named "The Future of E-Money" published in the international seminar "Marketing on Internet" held at IIMS, Bareilly in year 2000.

Workshop/FDP Organized:

- Two weeks Workshop on Amateur Radio Communication Systems & Networks (ARCSN-2020), 03-15 February 2020 Technically Sponsored by IEEE UP Section & IEEE Signal Processing Society Chapter Under TEQIP at BTKIT Dwarahat.
- Workshop on Applications of Machine Learning in Signal, Image and Computer Vision (AMALGAM-2019), 07-11 July 2019 technically Sponsored by IEEE UP Section Under TEQIP at BTKIT Dwarahat.
- Faculty Development Program on Academic and Non Academic Reforms and Training Methodology ,08-12 January 2018 under TEQIP at BTKIT, Dwarahat.
- National Workshop Computational Intelligence & Research using MATLAB and its Applications 03 December 2016 Under TEQIP at BTKIT, Dwarahat.

International/National Conferences Organized:

- First International Conference on Advances in Technologies and its Applications in Current Era(ICATACE-2018) 6-7 April 2018 at BTKIT, Dwarahat.
- National Conference on Current and Future Trends on Emerging Technologies (CFTET-2017) 27-28 December 2017.
- Second International Conference on Soft Computing 08-10 November 2008 at IET, Alwar Rajasthan.

Workshops/FDPs attended:

- **NPC Residential Training Program "Resource Management, Monitoring and Evaluation"** December 09-13, 2019 at Goa.
- **Faculty Development Program on Active Learning, Autonomy, Academic Governance and R&D** July 02-06 ,2018 at IIT Roorkee.
- **Workshop on Outcome Based Education**, 21-22 March 2018 at BTKIT Dwarahat
- **National Workshop on Wireless Sensor Networks**, March 04-08, 2017 at BTKIT Dwarahat.
- **Quality Enhancement in Engineering Education (QEEE) training workshop**, 17-18 December 2013, IIT Madras.

PERSONAL DATA:

DATE OF BIRTH: 1st July 1978
 NATIONALITY: INDIAN
 CATEGORY: GENERAL

BLOOD GROUP: O POSITIVE

MARITAL STATUS: MARRIED

DECLARATION:

I hereby solemnly declare that all the statements made in this format are true, correct and complete to the best of my knowledge and belief.

STATION : DWARAHAT

DATE : 31.05.2023

AJIT SINGH

