



Dr Sandeep Sahu

Associate Professor



11 November 1985



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About me

Sandeep aspires to work in an Engineering Institution/University where his knowledge and skills in Computer Science and Engineering can be used to enlighten young minds. Sandeep displays great curiosity and attempts to fit his diverse experiences into a clear understanding of the world of engineering, research & education.

Skills

Unix, Linux OS

Windows OS

Simulators NS2-3, NetSim

Scripting Languages, Shell Script, TCL

C, C++

PROLOG

Python (learning*)

(*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

Objective

I am seeking a position at your institute to work diligently in an organization that provides opportunities to grow while being resourceful, innovative, and articulate, where I can demonstrate the technical, experimental, and research skills that I am supposed to be engaged in academic, education and research work. A career opportunity that would help me utilize my knowledge and ability to enhance the organization's and myself's growth.

Educations and Experiences

2023-Present	Working at LNCT, Group of Institutions, Bhopal MP. as Associate Professor	LNCT, BPL, Job
2021-2023	Worked at VIT-Bhopal, University, Sehore, MP. as Senior Assistant Professor Grade-2	VIT, BPL, Job
2018-2021	Worked at S.A.T.I., Vidisha, MP as Assistant Professor under NPIU-M.H.R.D., New Delhi	S.A.T.I., VDS, Job
2018-2018	Worked at G.E.C., Bharatpur, RJ as Assistant Professor under NPIU-M.H.R.D., New Delhi	G.E.C. BRP, Job
2015-2022	Completed Ph. D. from University of Technology, R.G.P.V., Bhopal Ph.D. with the aggregate 71.75 percent.	
2011-2017	Worked at S.R.I.T., Jabalpur as Assistant Professor	S.R.I.T., JBP, Job
2011	Completed M.Tech. from I.I.T. Guwahati, Assam with the 6.59 CGPA	M.Tech.
2009	Qualified GATE Exam with the 98.5 percentile	G.A.T.E.
2008-2009	Worked at Truba Institute of Engineering, Bhopal as Lecturer	Truba, BPL, Job
2008	Completed B.E. from S.A.T.I., Vidisha, MP with the aggregate 71.41 percent	B.E.
2003	HSSC, Board of Secondary Education, Bhopal, MP. with the 55.77 percent	HSSC
2001	High School, Board of Secondary Education, Bhopal, MP. with the 72.6 percent	HSC

Project & Research Guidance in U.G. and P.G. Levels

Undergraduates: Supervised Projects at U.G. level (27).

Postgraduates: Supervised Research Scholars at P.G. level (12).

Subject Interests

Computer Organization and Architecture, Data Communication, Computer Networks, Wireless Sensor Networks, Ad-Hoc Networks, MANETs, Compiler Design, Operating Systems, Artificial Intelligence, and the Internet of Things.

RESEARCH INTERESTS

2009-2022	Ad-Hoc Networks, MANETs, Wireless Sensor Networks, Computer Networks, and Cloud Computing.
2023-2025	Wireless Body Sensor Networks (BSNs), Wireless Medical Sensor Networks, Healthcare Systems, IoTs, and Applications.

Extra Curriculum Activities

- Developing lesson plans, adapting curriculum to meet individual student needs, and utilizing effective teaching techniques in translating lesson plans into productive student learning experiences that best utilize the time available for instruction.
- Develop and maintain professional relationships with colleagues, students, parents, and community members.

- Evaluate students' academic and personal growth, keep appropriate records, and prepare progress reports.
- Attended and Organised as a coordinator/co-coordinator/organizing member for many programs viz., Workshops, FDPs, QIPs, Technical Talks & Conferences at department and institute levels.
- Serve as a session chair and also as a reviewer for many reputed conferences and journal articles from various publishers (Scopus/WoS).
- Branch Representative of M. Tech. Computer Science & Engineering Dept. at IIT Guwahati, Assam.
- I secured the second position in Badminton at the School level (High School).

Job Responsibilities

2023-2024	LNCT Bhopal	NBA-UGC-NAAC
	Currently, I work with LNCT Group of Colleges, Bhopal, and I am involved in teaching, research and NBA and UGC-NAAC accreditation activities (Component No. 3.1 Research Innovations and Extension).	
2021-2023	V.I.T. Bhopal	Insight Club Coordinator
	working as a Faculty Coordinator at the University Level to reignite the sharp minds of our students and to create and distribute reports about the various newsworthy events, facts, ideas, and celebrated personalities.	
2018-2023	S.A.T.I., Vidisha	Alumni Convener
	working as an Alumni Convener at the Institute Level and hosting the Institute Alumni Official Website and connecting enormous alumni around the globe.	
2018-2021	S.A.T.I., Vidisha	IIIC Coordinator
	working as an Institute-Industry-Interaction Cell Coordinator at the Institute Level to make relations with industries.	
2018-2021	S.A.T.I., Vidisha	TEQIP-III Office & Core Member of C.G.C. Cell
	worked as a team member of TEQIP-III Office and training placement activity coordinator at Institute and Department level.	
2018-2021	S.A.T.I., Vidisha	Core Member of CGC cell
	worked as a training placement activity coordinator at Institute and Department CSE level.	
2018-2018	G.E.C., Bharatpur	Start-up Cell Member & AAA Committee, Research Assistantship, Induction Program, and FDPs Motivation Committee Member
	worked as Start-up Cell and AAA committee member at Institute and Department level. Also worked as a Research Assistantship, Induction Program, and FDPs Motivation Committee Member at Institute for AICTE mandates.	
2017-2018	S.A.T.I.-Vidisha & M.I.T.S.-Gwalior	Question Paper Setter
	worked as Question Paper Setter for various Autonomous Institutions like S.A.T.I.-Vidisha, M.I.T.S.-Gwalior and more.	
2016-2017	SRGI, Jabalpur	Headed for U.G. (B.Tech.) Program
	worked as an Assistant Professor with the head of the Department of Computer Science & Engineering for the U.G. (B.Tech.) program.	
2011-2016	SRIT, Jabalpur	Headed for P.G. (M.Tech.) Program
	worked as an Assistant Professor with the head of the Department of Computer Science & Engineering for P.G. (M.E./M.Tech.) programs.	

Research and Academic Contributions

Publications: Patent, Conference, Book Chapter, and Journals

1. September 2023 "Machine Learning based Virtual assistant with error identification" Intellectual Property, Indian Patent Registered, Government of India. [Published Patent No.:202321045581]

2. June 2023 "Smart Remote Monitoring of High-Risk Patient Through AI-Powered Solutions" Intellectual Property, Indian Patent Registered, Government of India. [Published Patent No.:202311027231]
 3. December 2022 "Deep Learning Machine Learning Based Medical Diagnostic System and Method Thereof" Intellectual Property, Indian Patent Registered, Government of India. [Published Patent No.: 202211069041]
 4. August 2022 "An Advanced Artificial Intelligence and Machine Learning in Healthcare 5.0," Intellectual Property, Indian Patent Registered, Government of India. [Published Patent No.: 202221046858]
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1. S. Tiwari, N. Rahim, S. Sahu, & N. Sharma, "Multiple Blur Images Restoration-A Parallel Computing Approach," Fourth International Conference on Computational Intel. and Com. Networks, pp. 374-377, 2012. [IEEE-Xplore]
 2. Agrawal, R. & Sahu, S., "Secured routing over MANET using Enhanced Secured Routing (ESR)," International Conference on Control Computing Communication & Materials, pp.1-6, 2013.[IEEE-Xplore]
 3. S. Tiwari & Sahu, S., "A Novel Approach for the Detection of OMR Sheet Tampering Using Encrypted QR Code", International Conference on Computational Intelligence and Computing Research, pp. 604-608, 2014.[IEEE-Xplore]
 4. Sandeep Sahu & Sanjay Silakari, "Whale-optimization based Energy-Efficient Clustered Routing for Wireless Sensor Networks", International Conference SoCTA, LNNS, Vol. 425, pp.333-344. 2022. [Springer]
 5. Sandeep Sahu & Sanjay Silakari, "Energy-Efficient And Fault-Tolerance In Wireless Sensor Networks: Analysis And Review", International Conference SoCTA, LNNS, Vol. 425, pp.389-402, 2022. [Springer]
 6. Sandeep Sahu & Sanjay Silakari, "A Robust Distributed Clustered Fault-Tolerant Scheduling for Wireless Sensor Networks (RDCFT)", International Conference on Machine Intelligence and Signal Processing (MISP), LNEE, Vol. 998, pp.81-93, 2023. [Springer]
 7. Sandeep Sahu & Sanjay Silakari, "Analysis, Development, and Review on IoT Based Body Sensor Healthcare Systems," Book Chapter: IoT in Healthcare Applications, Benefits, Challenges, and Real-Time use cases, CRC Press, Taylor & Francis, 2021. [Taylor & Francis]
 8. Ravi Verma, Gaurav Soni, Sandeep Sahu, & Kamlesh Chandrawanshi "Security Requirements, Issues, and Challenges in IoE" accepted for publication in the Book series "Blockchain Technology for IoE Security and Privacy Perspectives", CRC Press, pp. 23, ISBN: 9781003366010, 2023. [Taylor & Francis]
 9. Ravi Verma, Gaurav Soni, & Sandeep Sahu "Introduction of Green Computing for smart cities" accepted for publication in the Book series "Green Computing for Sustainable Smart Cities: A Data Analytics Applications Perspective", 1st Edition, CRC Press, pp. 1, ISBN: 9781032483931 2024. [Taylor & Francis]
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1. Sandeep Sahu, Sanjay Silakari, 2022 "Distributed Multilevel k-Coverage Energy-Efficient Fault-Tolerant Scheduling for Wireless Sensor Networks (DkCEFS)", Wireless Personal Communication, Springer, Vol. 124, Issue 4, pp. 2893-2922. [SCIE and Q-2 Scopus]
2. Sandeep Sahu, Sanjay Silakari, 2021 "Analysis of Energy, Coverage, and Fault Issues and their Impacts on Applications of Wireless Sensor Networks: A Concise Survey", International Journal of Computer Networks and Applications, Vol. 8, Issue 4, PP: 358-380, 2395-0455.[Q-3 Scopus]
3. Alka Choubey & Sandeep Sahu, 2016 "High-Performance Trust Mechanism Using Adv Protocol in Manet", IRAJ, Vol 9, Issue 1. [UGC-Care List]

4. Vivek Sahu & Sandeep Sahu, 2013 "A Survey of Wireless Sensor Network Routing Protocol and a lifetime of sensor network", IJMRA, IJMRA-3574 April. [UGC-Care List]
 5. Hemangpriya Shrivastava & Sandeep Sahu, 2013 "Analysis And Overview Of Routing Protocols And Security Attacks In Wireless Sensor Networks", IJERT, Vol. 2 Issue 4. [UGC-Care List]
 6. Rishav Dubey & Sandeep Sahu, 2013 "Clone Attack Detection Procedures in Wireless Sensor Networks – Classification & Analysis", IJETMR, Vol. 1, Issue 1, February. [UGC-Care List]
 7. Hemangpriya Shrivastava & Sandeep Sahu, 2013 "Protected Greedy Perimeter Stateless Routing in Wireless Sensor Networks", IJETTCS, Vol. 2, Issue 3.[UGC-Care List]
 8. Sonam Jain & Sandeep Sahu, 2012 "Geometric Routing Protocol based on Genetic Algorithm for Delay Minimization in MANETs", IJCSIT, Vol. 3 (3), pp. 4122-4126.[UGC-Care List]
- For more publication details, kindly visit [Google Scholar/Vidwan Profile](#).

Indexing

- Google Scholar: Citation: 228, H-Index: 9, I10-Index: 9.
- Semantic Scholar Id: Sandeep-Sahu/49354866.
- ORCID ID: 0000-0002-6442-2750.
- Scopus ID: 36762571900.
- VIDWAN ID: 121141.

Other Information

Personal Details

- Father's Name: Dr. M. L. Sahu (Ex-MP-Govt. Veterinary-Officer)
- Mother's Name: Mrs. Asha Sahu (House Maker)
- Wife's Name: Mrs. Sandhya Sahu (House Maker with two daughters kids: Sudiksha & Samiksha)
- Permanent Address: House No. 05, Ward No. 1, Near Beharu Mata Mandir, Main Road, Shahpura Bhitoni, District Jabalpur, M.P. 483119.
- Languages Known: English and Hindi.

Referees

1. Dr. Shailendra Shrivastava, Professor, S.A.T.I., (Degree), Dept. of C.S.E., Civil Line, Vidisha, Email: shailendrashrivastava@satiengg.in.
2. Dr. S.V. Rao, Professor, Indian Institute Of Technology, Guwahati, Room 108, Block H, Dept. of C.S.E., IITG, Email: svrao@iitg.ernet.in.
3. Dr. Sanjay Silakari, Professor, Dept. of C.S.E., UIT, RGPV, Gandhi Nagar, Bhopal, Email: ssilakari@yahoo.com.

Hobbies

- Teaching, Research, Writing in LATEX, Reviewing Research Papers, Student counseling, Social works, Watching Movies & Listening Songs.

Declaration

I hereby solemnly affirm and declare that the information furnished by me is true to the best of my Knowledge.

Dr. Sandeep Sahu