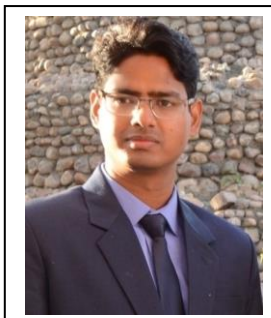


CURRICULUM-VITAE

Name : **Dr. ANSHUL VERMA**
Address : Department of Computer Science,
Institute of Science,
Banaras Hindu University, Varanasi-221005,
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Objectives

- To build a career in teaching and research involving extensive laboratory based learning.
- To engage in outreach activities such as funded projects, consultancy, organizing skill development workshops etc.
- To work with complete dedication towards the fulfillment of Institute's overall objectives.

Research Interests

- Distributed Systems
- Mobile Ad-hoc Networks
- Wireless Sensor Networks
- Formal Modeling and Verification
- Mobile Computing

Teaching Interests

- Operating Systems
- Database Management Systems
- Data Structures
- Programming C/C++
- Formal Methods
- Distributed Systems

Experience

- Working as **Assistant Professor** since **2017**,
Department of Computer Science, Institute of Science,
Banaras Hindu University (BHU) Varanasi, India.
- Worked as **Postdoctoral Fellow** in **2017**,
Department of Computer Science and Engineering,
Indian Institute of Technology (IIT) Kharagpur, India.
- Worked as **Assistant Professor** (Ad-hoc) from **2016** to **2017**,
Department of Computer Science and Engineering,
National Institute of Technology (NIT) Jamshedpur, India.
- Worked as **Assistant Professor** (Ad-hoc) from **2015** to **2016**,
Department of Computer Science and Engineering,
Motilal Nehru National Institute of Technology (MNNIT) Allahabad, India.

Education

- **Post-Doctorate in Computer Science and Engineering**, 2017
Indian Institute of Technology (IIT) Kharagpur, India.
Project Title : *Formal modeling and verification of moving-block signaling based train operation simulator for Indian Railways.*
Supervisor : Prof. Pallab Dasgupta
Through Science and Engineering Research Board – National Postdoctoral Fellowship (SERB-NPDF), sanction letter number PDF/2017/00512.
- **Ph.D. in Computer Science and Engineering**, July 2011 – August 2016
ABV-Indian Institute of Information Technology & Management Gwalior, India.
Thesis Title : *Design and Analysis of Deployable Multi-agent Communication Based Train Control System for Indian Railways.*
Thesis Submission Date : 06-10-2015
Ph.D. awarded Date : 17-08-2016
Supervisor : Dr. Kiran Kumar Pattanaik
Under DIT funded project "Multi-agent based train operations under moving block setup", vide grant number EC 2(6)2010.

- **M.Tech. in Computer Science and Engineering**, July 2009 - June 2011
ABV-Indian Institute of Information Technology & Management Gwalior, India.
Thesis Title : *Context-aware Routing in Opportunistic Network*.
Supervisor : Dr. Anurag Srivastava

Publications

International Journals:

1. Neetu Kumari, **Anshul Verma**, "Analysis Of Oncogene Protein Structure Using Small World Network Concept", **Current Bioinformatics**, Bentham Science Publisher, 2019. DOI: 10.2174/1574893614666191113143840 [Accepted] (SCIE, SCOPUS)
2. Pradeepika Verma, **Anshul Verma**, "A Review on Text Summarization Techniques", **Journal of Scientific Research**, Vol. 64, No. 1, pp. 251-257, 2020. DOI: 10.37398/JSR.2020.640148 (UGC-CARE)
3. Pradeepika Verma, **Anshul Verma**, "Accountability of NLP Tools in Text Summarization for Indian Languages", **Journal of Scientific Research**, Vol. 64, No. 1, pp. 258-263, 2020. DOI: 10.37398/JSR.2020.640149 (UGC-CARE)
4. **Anshul Verma**, K. K. Pattanaik, "Failure Detector of Perfect P Class for Synchronous Hierarchical Distributed Systems", International Journal of Distributed Systems and Technologies (IJDST), **IGI Global**, Vol. 7, No. 2, pp. 57-74, 2016. DOI: 10.4018/IJDST.2016040104 (ESCI, SCOPUS)
5. **Anshul Verma**, K. K. Pattanaik, "Multi-agent Communication Based Train Control System for Indian Railways: The Behavior Analysis", Journal of Modern Transportation (JMT), **Springer**, Vol. 23, No. 4, pp. 272-286, 2015. DOI: 10.1007/s40534-015-0083-1 (ESCI, SCOPUS)
6. **Anshul Verma**, K. K. Pattanaik, "Multi-agent Communication Based Train Control System for Indian Railways: The Structural Design", Journal of Software (JSW), International Academy Publishing (**IAP**), Vol. 10, No. 3, pp. 250-262, 2015. DOI: 10.17706/jsw.10.3.250-259 (SCOPUS)
7. **Anshul Verma**, K.K. Pattanaik, "Mobile Agent based Train Control System for Mitigating Meet Conflict at Turnout", Procedia Computer Science, **Elsevier**, Vol. 32, pp. 317-324, 2014. DOI: 10.1016/j.procs.2014.05.430 (SCOPUS)
8. **Anshul Verma**, Anurag Srivastava, "Integrated routing protocol for opportunistic networks", International Journal of Advanced Computer Science and Applications (**IJACSA**), Vol. 2, Nr. 3, pp. 85-92, 2011. DOI: 10.14569/IJACSA.2011.020315 (ESCI, SCOPUS)

International Book Chapters:

9. **Anshul Verma**, Mahatim Singh, K. K. Pattanaik, "Failure Detectors of *Strong S* and *Perfect P* classes for Time Synchronous Hierarchical Distributed Systems", Applying Integration Techniques and Methods in Distributed Systems and Technologies, **IGI Global**, chapter 10, pp. 246-280, 2019. DOI: 10.4018/978-1-5225-8295-3.ch010
10. **Anshul Verma**, Mahatim Singh, K. K. Pattanaik, B. K. Singh, "Future Networks Inspired by Opportunistic Network", Opportunistic Networks: Mobility Models, Protocols, Security & Privacy, CRC Press (**Taylor & Francis**), chapter 12, pp. 229-246, 2019. DOI: 10.1201/9780429453434
11. **Anshul Verma**, K. K. Pattanaik, "Routing Protocols in Opportunistic Networks", Opportunistic Networking: Vehicular, D2D and Cognitive Radio Networks, CRC Press (**Taylor and Francis**), chapter 5, pp. 125-166, 2017. DOI: 10.1201/9781315200804 (SCOPUS)
12. **Anshul Verma**, K. K. Pattanaik, Aniket Ingavale, "Context-Based Routing Protocols for OppNets", Routing in Opportunistic Networks, New York, **Springer**, chapter 3, pp. 69-97, 2013. DOI: 10.1007/978-1-4614-3514-3_3 (SCOPUS)

International Conferences:

13. **Anshul Verma**, K. K. Pattanaik, P. P. Goel, "Mobile Agent based CBTC System with Moving Block Signalling for Indian Railways", 2nd International Conference on Railway Technology: Research, Development and Maintenance (Railways 2014), Corsica, France, **Civil-Comp Press**, Paper 278, 2014. DOI:10.4203/ccp.104.278 (SCOPUS)

Thesis/Projects Guided

➤ Ph.D.

SN	Student Name	Thesis Title	Year of Completion
1.	Mohini Singh	Context-aware Routing Protocols for Opportunistic Networks	ongoing
2.	Bhawana	Failure Detector Algorithms for Distributed Systems	ongoing

- **M.Tech.** : 02 Students
- **M.C.A.** : 16 Students
- **M.Sc.** : 06 Students
- **B.Tech.** : 09 Students

Theory Subjects Taught

- Operating systems
- Wireless sensor networks
- Introduction to programming C
- Database management systems
- Computer networks
- Fundamentals of computing
- Human computer interaction
- Parallel and distributed computing
- Distributed systems
- Object oriented systems
- Formal methods
- Data warehousing and mining

Awards/Prizes/Fellowships

- Received National Post-Doctoral Fellowship (N-PDF) from Science and Engineering Research Board (SERB), Govt. of India, from August 2017 to October 2017, for pursuing Post-Doctoral research.
- Received scholarship from Ministry of Human Resource Development (MHRD), Govt. of India, from July 2011 to June 2015, for pursuing Ph.D. degree.
- Received scholarship from Ministry of Human Resource Development (MHRD), Govt. of India, from July 2009 to May 2011, for pursuing M.Tech. degree.
- Graduate Aptitude Test in Engineering (GATE) in Computer Science, 2009 & 2011 qualified.

Invited Talks/Lectures

- Delivered an expert lecture in two days National workshop on "Identifying, Creating and using Open Education Resources" organized by Faculty of Education, Banaras Hindu University, Varanasi, on 16-11-2019.
- Delivered an expert lecture in one week Research Sensitization National workshop on "5G & Industrial IoT" organized by Institute of Engineering & Technology, Dr. Ram Manohar Lohia Avadh University, Ayodhya, on 03-04-2019.
- Got invited as an expert of "Digital Transaction and Cyber Security" to record an interactive session broadcasted on 08-10-2018 at 01:15 PM by All India Radio Varanasi.
- Delivered an expert lecture in one week National workshop on "Evolving Drifts in Computer Science" (NWEDCS-2018) organized by Rajkiya Engineering College (R.E.C), Ambedkar Nagar, on 10-07-2018.

Professional Certifications

- **IBM Rational SEED Program** certificate from IBM in 2012.
- **IBM Certified Solution Designer** (Rational Functional Tester for JAVA) certificate from IBM in 2011.
- **IBM Certified Database Associate** (DB2 9 Fundamentals) certificate from IBM in 2010.
- **IBM Certified Associate Developer** (Rational Application Developer for WebSphere Software V6.0) certificate from IBM in 2010.

- **'A' Level** one year computer Diploma from DOEACC Society, Institute HBTI-STEP Nawab Ganj Kanpur, India, in 2006 with B Grade (65-75 %).
- **'O' Level** one year computer Diploma from DOEACC Society, Institute UPTEC Computer Consultancy Ltd. Kanpur, India, in 2004 with A Grade (75-85 %).
- **Computer Hardware Maintenance & Networking** certificate from Small Industry Service Institute Kanpur, India, in 2005.

Conferences and Workshops Attended

- Attended **NPTEL SPOC Felicitation Workshop** at IIT Kanpur Outreach Centre, Noida, India, in February 2020.
- Attended **NPTEL SPOC Felicitation Workshop** at IIT Kanpur, India, in August 2019.
- Technical Programme Committee Member of the **International Conference on Cyber Security: Recent Threats and Trends (ICCSTT)** will be held at Chhatrapati Shahu Ji Maharaj University, Kanpur, India, in 2019.
- Technical Programme Committee Member of the **International Conference on Machine Learning, Image Processing, Network Security and Data Sciences (MIND)** will be held at National Institute of Technology Kurukshetra, India, in 2019.
- Technical Programme Committee Member of the **International Conference on Computational Intelligence and Data analytics (ICCIDA)** held at Gandhi Institute for Technology, Bhubaneswar, India, in 2018.
- Poster presented at **ACM India Annual Event (IRISS)** held at BITS Pilani Goa Campus, India, in 2015.
- Attended **IEEE Authors' Workshop** at ABV- Indian Institute of Information Technology and Management Gwalior, India, in 2014.
- Attended **Workshop on Intelligent Robotics** at ABV-Indian Institute of Information Technology and Management Gwalior, India, in 2012.
- Attended **Nano Sensors for Health Care Application** at ABV-Indian Institute of Information Technology and Management Gwalior, India, in 2011.
- Attended **Workshop on Intelligent Robotics** at ABV-Indian Institute of Information Technology and Management Gwalior, India, in 2011.

Technical Skills

Operating System	: Windows, UNIX, LINUX.
Language	: C, C++, JAVA, Visual Basic.
Database	: FoxPro, MS Access, Oracle, MS SQL Server, MySQL.
Scientific Writing	: Latex, Kile.
Scientific Tools	: ONE, Origin, MESSAGE.
Formal Methods	: Petri Net, CPN, CCS, HML, LTL, CTL.

Personal Details

Father's Name	: Mr. Ram Swaroop Verma
Date Of Birth	: 12-04-1987
Marital Status	: Married
Nationality	: Indian
Languages Know	: Hindi & English

Declaration

- I hereby declare that all the above information is true to the best of my knowledge and belief. I understand that any discrepancy found in the above information will render me liable for appropriate action.

Date : 18-03-2020
Place : Varanasi, India.

Dr. ANSHUL VERMA