**Dr. ANSHUL VERMA**
*Assistant Professor*
Department of Computer Science
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## Research Interests

➢ Formal Verification
➢ Distributed Systems
➢ Mobile Computing
➢ Communication based Train Control Systems
➢ Mobile Ad-hoc Networks

## Academic Interests

➢ Distributed Systems
➢ Formal Methods
➢ Database Management Systems
➢ Operating Systems
➢ Data Structures
➢ Programming C and C++

## Education

1. **Post-Doctorate** in **Computer Science and Engineering** from **Indian Institute of Technology (IIT) Kharagpur, India.** (August 2017 – October 2017)

2. **Ph.D.** in **Computer Science and Engineering** from **ABV-Indian Institute of Information Technology & Management Gwalior**, India. (July 2011 – August 2016)

3. **M.Tech.** in **Computer Science and Engineering** from **ABV-Indian Institute of Information Technology & Management Gwalior**, India. (July 2009 - June 2011)

## Experience

4. Working as **Assistant Professor** since October 2017 in Department of Computer Science, Institute of Science, **Banaras Hindu University (BHU) Varanasi**.

5. Worked as **Ad-hoc Faculty** from July 2016 to July 2017 in Department of Computer Science and Engineering, **National Institute of Technology (NIT) Jamshedpur**.

6. Worked as **Guest Faculty** from July 2015 to May 2016 in Department of Computer Science and Engineering, **Motilal Nehru National Institute of Technology (MNNIT) Allahabad.**

## Publications

**International Book Chapters:**

1. **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.

2. **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.

**International Journals:**

1. **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.

2. **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.

3. **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.

4. **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.

5. **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.

**International Conferences:**

1. **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.

## Fellowships

➢ Received National Post-Doctoral Fellowship (NPDF) from Science and Engineering Research Board (SERB), Govt. of India, from August 2017 to October 2017, for pursuing Post-Doctoral research.

➢ Received fellowship from Ministry of Human Resource Development (MHRD), Govt. of India, from July 2011 to June 2015, for pursuing Ph.D. degree.

➢ Received fellowship from Ministry of Human Resource Development (MHRD), Govt. of India, from July 2009 to May 2011, for pursuing M.Tech. degree.

## 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.