

Dr. MANOJ MADHAVA GORE



Professor,

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Teaching

Courses Taught:

Current Courses:

- (CS32105) Technical Writing
- (CS22103) Secure E-Commerce

Past Courses:

- (CS21101) Research Methodology
- (CS32105) Technical Writing
- (CS22103) Secure E-Commerce
- (CS31101) Programming and Problem Solving (PPS) & (CS31201) PPS Lab
- (CS1608) Business Intelligence
- (CS2251) Network Programming and LAMP Stack Lab
- (CS1301) Data Structure (DS) & (CS1352) DS Lab
- (CS2119) Decision Support System

Biography:

Education

Undergraduate

- B.Sc : University of Allahabad (Ewing Christian College) in 1985.
- B.Tech (Electronics and Telecommunication): University of Allahabad (J.K. Institute Of Applied Physics & Technology) in 1989.

Postgraduate

- M.E(Computer Sc.& Engg.): University of Allahabad (M.N.R. Engineering College Allahabad) in 1991.
- Ph.D : IIT Kanpur, Kanpur in 2002.

Appointments Held

- Working as **Professor**, Computer Science and Engineering Department, Motilal Nehru National Institute of Technology, Allahabad since June 2005.
- Worked as a **Reader** in Computer Science and Engineering Department from March 1999 to June 2005, and as **lecturer** in Department of Electronics & Communication Engineering from January 1991 to March 1999.

Visiting Appointments:

- Worked as **Associate Professor** at IIIT Allahabad for one academic year from July 2003 to June 2004.

Others

Role & Responsibility:

1. Dean (Planning and Development) since August 2018
2. Dean (Planning and Development) Additional Charge from Nov. 2017 to July 2018
3. Chairman Central Purchase Committee from December 2016 to December 2017
4. Dean (Resource Generation & International Affairs) from August 2016 to July 2018
5. Dean (Student Welfare) from October 2012 to October 2014
6. Coordinator and Editor Hindi Patrika Sangam from June 2012 to February 2014
7. Transparency Officer from September 2011 to February 2014
8. Head, Computer Science and Engineering Department from July 2010 to June 2012
9. Chairman, Library and Learning Resource Committee from June 2009 to Feb. 2014
10. President, Student Activity Center from August 2008 to September 2009

Achievements & Awards:

Best Paper Award for “**TOO-MUCH: Testing Online Over MNNIT Unified Coding Hub**” with Deepanshu Gupta, Dhruv Sharma, G. Sree Deepthi, Yogeshwar Patel, Pawan Subedi, and Abdul Aleem in 1st International Conference on Computing Applications in Electrical and Electronics Engineering (ICCAEEE-2019), held at REC Sonbhadra, Aug. 2019.

Best Paper Award for “**Implementation of MapReduce over structured Peer-to-Peer overlay of underutilized resources**” with Shashwati Banerjee, Mayank Pandey, Ashish Kumar, and Rishabh Dugar in 10th IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS 2016), Bangalore, India , 6-9 November 2016.

Best Paper Award for “**Dset: A Semantic Distance Measure**” with Reena Srivastava. In the proceedings of the Third International Conference on Information Processing (ICIP 2009) ISBN 978-93-80026-72-5, pp 419-428, Bangalore, India, 7-9 August 2009.

Fellow, The Institution of Electronics and Telecommunication Engineers (India)

Fellow, The Institution of Engineers (India)

Area of Research Interest

The areas of my research interest include:

- Database, Transaction Processing & Recovery Issues
- Wireless Sensor Networks
- Data Mining Applications
- Mobile and Wireless Computing Applications
- Machine Learning and IoT Applications

Sponsored Projects

- Extended Transaction Processing (2000-04), Funded by MHRD, Government of India. **(Role: PI)**
- Information Security Education Awareness (Feb. 2005 - June 2009), Funded by MIT, Government of India, **(Role: PI)**
- Intelligent Detection and Mitigation of DDOS Attack in SDN (ongoing), Funded by Department of Science and Technology (DST-ICPS Scheme), **(Role: Co-PI)**

Workshops/Conferences/Seminars/Short-Term Courses Organized

1. A self-financed summer training program On "Enhancing Skill for Enterprise Scale Application Development ((ES)²AD)" organized by Department of Computer Science & Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj during 20th June- 16th July **2016. (Role: Coordinator).**
2. One-Week self-financed workshop on “Data Structures (DS-2016)” organized by Department of Computer Science & Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj during 4th July- 8th July **2016. (Role: Coordinator).**
3. One-Week self-financed workshop on “Data Analytics and Machine Learning with R (DAMLR-2017)” organized by Department of Computer Science & Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj during 29th May – 2nd June **2017. (Role: Coordinator).**
4. A self-financed summer training program on "Enhancing Skill for Enterprise Scale Application Development ((ES)²AD)" organized by Department of Computer Science & Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj during 9th June – 6th July **2017. (Role: Coordinator).**
5. One-Week self-financed short-term course on “Machine Learning and Applications (MLA-2017)” organized by Department of Computer Science & Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj during 10th July – 14th July **2017. (Role: Coordinator).**
6. 7th International Conference on Computer and Communication Technology (ICCCT-2017) organized by Department of Computer Science & Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj during 24th November – 26th November **2017. (Role: General Chair).**
7. One-Week self-financed workshop on “Data Analytics and Machine Learning with R (DAMLR-2018)” organized by Department of Computer Science & Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj during 28th May – 1st June **2018. (Role: Coordinator).**
8. A self-financed summer training program on "Enhancing Skill for Enterprise Scale Application Development ((ES)²AD)" organized by Department of Computer Science & Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj during 7th June – 4th July **2018. (Role: Coordinator).**
9. A self-financed summer training program on "Enhancing Skill for Enterprise Scale Application Development ((ES)²AD)" organized by Department of Computer Science & Engineering, Motilal Nehru National Institute of Technology Allahabad, Prayagraj during 7th June – 4th July **2019. (Role: Coordinator).**

Publications

Journal Papers:

14. "A Historical Data based Ensemble System for Efficient Stock Price Prediction" with Vijay Kumar Dwivedi in "Recent Advancements in Computer Science and Communications (2020)" 13:1, DOI: 10.2174/2213275912666190730161807, Bentham Science Publishers.
13. "The choice is yours: The effects of optional questions in engineering examinations", with Abdul Aleem in "Computer Applications in Engineering Education", July 2019, DOI: 10.1002/cae.22138, Wiley Publications.
12. "C-BEAM: A confidence-based evaluation of MCQs for providing feedback to instructors", with Abdul Aleem in "Computer Applications in Engineering Education", Sept. 2018, DOI: 10.1002/cae.22061, Wiley Publications.
11. "Green Energy Generation from Moving Vehicles", with Brijendra Pratap Singh in "International Journal of Engineering Science and Technology (IJEST)", 9(09S), Sept. 2017, Engg Journals Publication.
10. "Balancing Energy Consumption Across Network for Maximizing Lifetime in Cluster-based Wireless Sensor Network" with Sansar Singh Chauhan in "CSI Transactions on ICT", January 2016, DOI: 10.1007/s40012-015-0074-8, CSI Publications.
9. "Structured P2P Overlay of Mobile Brokers for Realizing Publish/Subscribe Communication in VANET" with Tulika Pandey and Deepak Garg, in "The ScientificWorld Journal", Article ID 136365, January 2014, DOI: 10.1155/2014/136365, Hindawi Publishing Corporation.
8. "Publish/subscribe based information dissemination over VANET utilizing DHT" with Tulika Pandey and Deepak Garg in "International Journal of Frontiers of Computer Science" Volume 6, Issue 6, pp 713-724, December 2012, DOI: 10.1007/s11704-012-1154-7, Springer Publications.
7. "BiRange: An Efficient Framework for Biclustering of Gene Expression Data Using Range Bipartite Graph" with Suvendu Kanungo and Gadadhar Sahoo in "American Journal of Bioinformatics Research", 2(4):40-46, February 2012, DOI: 10.5923/j.bioinformatics.20120204.02, Scientific & Academic Publishing.
6. "BiCross: A Biclustering Technique for Gene Expression Data using One Layer Fixed Weighted Bipartite Graph Crossing Minimization" with Suvendu Kanungo and Gadadhar Sahoo in "International Journal of Computer Applications" 29(4):28-34, September 2011, DOI 10.5120/3553-4880, Published by Foundation of Science, New York, USA.
5. "A Semantic Preserving Distance Measure: Dset" with Reena Srivastava in "International Journal of Information Processing", 4(1):36-45, 2010, I K International Publishing House Pvt. Ltd., New Delhi, India. This paper is an extended version of the paper Dset: A Semantic Distance Measure published in ICIP 2009.

4. "Localization Scheme for Three Dimensional Wireless Sensor Networks Using GPS Enabled Mobile Sensor Nodes" with Vibha Yadav, Manas Kumar Mishra and Anil Kumar Singh.
Presented in the First International Conference on Networks and Communication (NetCom-09), Chennai, India, 27-29 December 2009. AND Published in "International Journal of Next-Generation Networks (IJNGN)", 1(1):60-72, December 2009, AIRCC Publishing Corporation.
3. "An Experimental Study to Compare ER/EER and OO models" with S K Jain and Gulab Singh in "International Journal of Computing Science and Communication Technologies (TECHNIA)", 2(1):221-228, July 2009.
2. "Database for Moving Vehicles in Context of Indian Environment" with S. K. Jain and B. D. Chaudhary, in "Journal of the CSI", 30(3):38-47, September 2000.
1. "Testable PLA Designs with Reduced Test Set" with M.R.Mukerjee, in "Journal Institute of Engineers", Malaysia, 57(2):7-15, 1996.

Book:

1. *Proceedings of 3rd International Conference, ICDCIT 2006*, held at Bhubaneswar, India, titled 'Distributed Computing and Internet Technology', with Sanjay K. Madria, Kajal T. Claypool, Rajgopal Kannan and Prem Uppul610.

Book Chapters:

2. "TOO-MUCH: Testing Online Over MNNIT Unified Coding Hub", with Deepanshu Gupta, Dhruv Sharma, G. Sree Deepthi, Yogeshwar Patel, Pawan Subedi, and Abdul Aleem, Book Chapter in book entitled "Computing Algorithms with Applications in Engineering", Chapter DOI: 10.1007/978-981-15-2369-4_5, Algorithms for Intelligent Systems, eBook ISBN: 978-981-15-2369-4 (In Press). Springer Nature Singapore.
1. "Smart DC Microgrid: A Cyber-Physical System Perspective" with Brijendra Pratap Singh, Book Chapter in book entitled "Technological Developments in Industry 4.0 for Business Applications", ISBN13: 9781522549369, IGI Global (September 2018).

Papers in Conference Proceedings:

60. TOO-MUCH: Testing Online Over MNNIT Unified Coding Hub", with Deepanshu Gupta, Dhruv Sharma, G. Sree Deepthi, Yogeshwar Patel, Pawan Subedi, and Abdul Aleem, In proceedings of 1st International Conference on Computing Applications in Electrical and Electronics Engineering (ICCAEEE-2019), held at REC Sonbhadra, Aug. 2019.
59. "Boomerang: Blockchain-based Freelance Paradigm on Hyperledger" with Babu Pallam in "Proceedings of The 10th International Conference on Computing, Communication And Networking Technologies (ICCCNT)" held at IIT Kanpur (06-08 July 2019).
58. "FAST: Freelancing Avenues State of Technologies" with Babu Pallam in "Proceedings of the 5th International Conference on E-Business and Applications (ICEBA 2019)" held at Bangkok, Thailand

(25-28 February 2019), pp. 43-47, DOI: <https://doi.org/10.1145/3317614.3317629>.

57. "A Fibonacci Heap Based Ensemble Model for Stock Price Prediction" with Vijay Kumar Dwivedi in "Proceeding of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE-2019)" held at KNIT Sultanpur (8-9 February 2019).
56. "A Study of Manuscripts Evolution to Perfection" with Abdul Aleem and Akhilesh Kumar in "Proceeding of 2nd International Conference on Advanced Computing and Software Engineering (ICACSE-2019)" held at KNIT Sultanpur (8-9 February 2019).
55. "Demand Side Management of a University Load in Smart Grid Environment" with Jwngsar Basumatary and Brijendra Pratap Singh in Workshops ICDCN 2018, held at IIT (BHU) Varanasi (4-7 January 2018).
54. "Information Security using Visual Cryptographic Technique for Resource Constrained Devices", with Rahul Kumar Singh and Brijendra Pratap Singh in "Conference on Information and Communication Technology (CICT 2017)", held at ABV-IIITM Gwalior (November 3-5, 2017).
53. "AdhocInfra Toggle: Opportunistic Auto-configuration of Wireless Interface for Maintaining Data Sessions in WiFi Networks" with Anurag Sewak, Prakhar Mehrotra, Bhaskar Jha, and Mayank Pandey in "ADHOC-NOW 2017", held at Messina, Italy (September 20-22, 2017).
52. "An Efficient System for Stock Price Direction Prediction" with Vishwajeet Rana and Vijay Kumar Dwivedi in "Fourth International Conference on Business Analytics and Intelligence (ICBAI-2016)", held at IISc Bangalore (19-21 December 2016).
51. "Green Energy Generation from Moving Vehicles" with Brijendra Pratap Singh in "International Conference on Design and Manufacturing (IConDM-2016)" held at IIITDM Kancheepuram, Chennai (16-17 December 2016).
50. "Byzantine Fault Tolerance for Real Time Price in Hierarchical Smart Grid Communication Infrastructure" with Deepika Durgvanshi and Brijendra Pratap Singh in "7th Power India International Conference" held at Govt. Engineering College Bikaner, Rajasthan (November 25-27, 2016).
49. "Forming Structured P2P Overlays over Disjoint MANET Clusters", with Anurag Sewak and Mayank Pandey in "10th IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS 2016)" held at Bangalore (6-9 November 2016).
48. "Implementation of MapReduce over structured Peer-to-Peer overlay of underutilized resources" with Shashwati Banerjea, Mayank Pandey, Ashish Kumar and Rishabh Dugar in "10th IEEE International Conference on Advanced Networks and Telecommunications Systems (ANTS 2016)" held at Bangalore (6-9 November 2016).
47. "Performance Evaluation of Peer-to-Peer Structured Overlays over Mobile Ad hoc Networks having Low Dynamism" with Anurag Sewak and Mayank Pandey in "International Conference on Mobile, Secure and Programmable Networking (MSPN-2016)" held at Paris, France (June 2016), LNCS 10026, Springer Berlin Heidelberg.

46. "Towards Peer-to-Peer Solution for Utilization of Volunteer Resources to Provide Computation-as-a-Service" with Shashwati Banerjee and Mayank Pandey in "The 30th IEEE International Conference on Advanced Information Networking and Applications (AINA)", held at Crans-Montana, Switzerland, (23-25 March, 2016), pp 1146-1153.
45. "LDC-MAC: Low latency DC-MAC protocol for wireless sensor network" with Sansar Singh Chauhan in "Proceedings of the CUBE International Information Technology Conference (CUBE'12)" held at Pune (September 3-5, 2012), pp 133-137, DOI: <http://doi.acm.org/10.1145/2381716.2381743>.
44. "DC-MAC: Dual Channel Energy Efficient MAC Protocol for Mobile Wireless Sensor Nodes" with Sandeep Singh and Sansar Singh Chauhan in "Proceedings of 8th IEEE Asia Pacific Wireless Communication Symposium (IEEE APWCS 2011)" held at Singapore (22- 23 August, 2011).
43. "An Accurate and Self-correcting Localization Algorithm for UWSN Using Anchor Nodes of Varying Communication Range" with Manas Kumar Mishra and Neha Ojha in "Proceedings of the 6th International Conference on Grid and Pervasive Computing (GPC 2011)" held at Oulu, Finland (May 11-13, 2011), pp 285-294, LNCS 6646 Springer 2011.
42. Trustworthy Path Discovery in MANET - A Message Oriented Cross-Correlation Approach with Girish Kumar Patnaik. In the proceedings of the Seventh International Symposium on Frontiers of Information Systems and Network Applications (FINA 2011) (25th IEEE International Conference on Advanced Information Networking and Applications Workshops, WAINA 2011), IEEE 2011, ISBN 978-1-61284-829-7 , pp 170-177, Biopolis, Singapore, March 22-25, 2011.
41. An improved forwarder selection approach for energy aware geographic routing in three dimensional wireless sensor networks with Manas Kumar Mishra. In the proceedings of the 2011 International Conference on Communication, Computing & Security (ICCCS 2011), ACM 2011, ISBN 978-1-4503-0464-1, pp 166-171, Odisha, India, February 12-14, 2011.
40. Robust and Distributed Range-Free Localization Using Anchor Nodes with Varying Communication Range for Three Dimensional Wireless Sensor Networks with Manas Kumar Mishra. In the proceedings of the 7th International Conference on Distributed Computing and Internet Technology (ICDCIT 2011), LNCS 6536 Springer 2011, ISBN 978-3-642-19055-1, pp 209-220, Bhubaneswar, India, February 9-12, 2011.
39. On Optimal Space Tessellation with Deterministic Deployment for Coverage in Three Dimensional Wireless Sensor Networks with Manas Kumar Mishra. In the proceedings of the Sixth International Conference on Distributed Computing and internet Technology (ICDCIT-2010), ISSN 0302-9743, ISBN-10 3-642-11658-2, ISBN-13 978- 3-642-11658-2, LNCS 5966, pp 72-83, Bhubaneswar, India, 15-17 February 2010.
38. Tree-Like Peer-to-Peer Symmetric Key Management in Mobile Ad-hoc Network with Girish Kumar Patnaik. In the proceedings of the First International Conference on Networks and Communication (NetCom-09), ISBN 978-0-7695-3924-9, pp 196-201, Chennai, India, 27-29 December 2009.

37. Mindex: A relevance measure for interval scaled attributes with Reena Srivastava. In the proceedings of Fourth Indian International Conference on Artificial Intelligence, ISBN 978-0-9727412-7-9, pp 2140-2157, Tumkur, Bangalore, India, 16-18 December 2009.
36. Energy Aware Beacon-less Geographical Routing in Three Dimensional Wireless Sensor Networks with Megha Jain and Manas Kumar Mishra. In the proceedings of the First International Conference on Advance Computing (ICAC-09), ISBN 978-1-4244-4787-9, pp 122-128, Chennai, India, 13-15 December 2009.
35. Dset: A Semantic Distance Measure with Reena Srivastava. In the proceedings of the Third International Conference on Information Processing (ICIP 2009) ISBN 978-93-80026-72-5, pp 419-428, Bangalore, India, 7-9 August 2009.
34. GCLOD: A Clustering Algorithm for Improved Intra-cluster Similarity and Efficient Local Outliers Detection with Abdul Aleem, Reena Srivastava and Anil Kumar Singh. In the proceedings of the Fifth International Conference on Data Mining (DMIN-09) ISBN 1-60132-099-X, pp 524-530, Las Vegas Nevada, USA, 13 -16 July 2009.
33. Cluster management in the known area of deployment for wireless sensor network with Sarvesh Singh, In the Proceedings of The Sixteenth IEEE International Conference on Networks (ICON'08) ISBN Number 978-1-4244-3805-1, New Delhi, December 2008.
32. Metadata Extraction from Semi Structured E-mail document with Ashok Kumar Sharma and B. D. Chaudhary, In the Proceedings of The Third International Multi Conference on computing in the Global Information Technology (ICCGI'08) ISBN Number 978-0-7695-3275-2, Athens, 27th July to 1st August 2008, pp. 56-61
31. A MICROCLUSTERING based method for multi-class classification in multi-relational databases with Reena Shrivastava, In the proceedings of the Fourth International Conference on Data Mining (DMIN-08) ISBN Number 1-60 132-060-4, Las Vegas Nevada, USA, CSRA Press pp. 14-20, 14th to 17th July 2008
30. A New Top-Down Hierarchical Multi-hop Routing Protocol for Wireless Sensor Networks with M.P.Singh, In the Proceedings of International Conference on Distributed Computing & Networking(ICDCN 2008), LNCS 4904, Kolkata, pp. 428-433Jan,2008.
29. Hasslefree: Simplified Access Control Management for XML Documents with Ashish Tripathi, In the Proceedings of 4th International Conference on Distributed Computing & Internet Technology(ICDCIT 2007), LNCS 4882, Banglore, India, pp. 116-128, December 17-20, 2007.
28. Network Mobility for Mobile Ad hoc Network in IPv4 Infrastructure Network with Pankaj Kumar, In the Proceedings of 2nd International Conference on Advanced Computing & Communication Technologies, APIIT, Panipat, India, pp. 336-340, November 03-04, 2007.
27. Secure Data Management in Reactive Sensor Networks with L. Chaithanya and M. P. Singh, In the Proceedings (Lecture Notes in Computer Science Series numbered 4332 published by Springer Verlag)

of Second International Conference on Information System Security(ICISS-06) held at Kolkata, December 2006, pp 235-248.

26. An Adaptive and Preemptive Algorithm for Faster Handoffs in WLAN with Vijay Ukani, at International Conference on Next Generation Communication Systems (ICONGENCOM-2006) held in J K Institute, University of Allahabad, Allahabad, India, December 2006, pp 15-20.
25. Cluster Based Routing Protocol for Energy Efficient Query Delivery in Wireless Sensor Networks with N. Jayalakshmi and Vijay Ukani, at International Conference on Next Generation Communication Systems (ICONGENCOM-2006) held in J K Institute, University of Allahabad, Allahabad, India, December 2006, pp 25-30.
24. Secure Adaptive Clustering Protocol for Wireless Sensor Networks with M.P. Singh and G. V. Krishna Rao, at thirteenth International Conference on Advanced Computing and Communication (ADCOM 2005), held at Coimbatore, Tamilnadu, India, 14-17 December 2005.
23. A New energy-efficient Clustering protocol for Wireless Sensor Networks with M. P. Singh, at Second International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP 2005) held at Melbourne, Australia 5-8 December 2005. The Proceeding of conference is published in IEEE Explore.
22. A Solution to Sensor Network Coverage Problem with M. P. Singh, in Proceedings of 7th IEEE International Conference on Personal Wireless Communication (ICPWC-2005) New Delhi, INDIA, January 2005 pp 77-80.
21. Something is Better than Nothing' Curbing and Curing Distributed Denial of Service of Attack with Lokesh Krishan Gupta, in the Proceedings (ISBN: 81-7764-717-2) of 12th International Conference on Advances in Computing and Communication (ADCOM-2004) held at Ahmedabad, INDIA, December 2004. pp 247-252.
20. BUSTRAP- An Efficient Travel Planner for Metropolitans with Sandeep Gupta, In the Proceedings (Lecture Notes in Computer Science Series numbered 3326 published by Springer Verlag) of Sixth International Workshop on Distributed Computing (IWDC 2004) at Kolkata, INDIA, December 2004 pp 537.
19. Path Stability based Adaptation of MANET Routing Protocols with Sandeep Chaudhary and O P Vyas, In the Proceedings (Lecture Notes in Computer Science Series numbered 3326 published by Springer Verlag) of Sixth International Workshop on Distributed Computing (IWDC 2004) held at Kolkata, INDIA, December 2004 pp 198-203.
18. Team Transaction: A New Transaction Model for Mobile Ad Hoc Networks with Ankur Gupta, Nitin Gupta, and R K Ghosh In the Proceedings (Lecture Notes in Computer Science Series numbered 3347 published by Springer Verlag) of International Conference on Distributed Computing and Internet Technology (ICDCIT-04) at Bhubaneswar INDIA, December 2004 pp 127-134.
17. An Extension to ER Model for Top-Down semantic modelling of databases of applications with S.K.

Jain and Gulab Singh In the Proceedings (Lecture Notes in Computer Science Series numbered 3356 published by Springer Verlag) of Seventh Annual International Conference on Information Technology (CIT04), Hyderabad, INDIA, December 2004 pp 253-262

16. Mitigating distributed denial of service attack with Lokesh Krishan Gupta in proceedings of International Conference on Distributed Processing and Networking DPN04, IIT Kharagpur, Kharagpur, India, June 2004, pp 72-76.
15. An Extensible Framework for Language Message Server with M P Singh in proceedings of Sixth Annual International Conference Information Technology (CIT03), Bhubaneshwar, Orissa, INDIA, December 2003. pp 588-589
14. Entity Relationship Schema Compression Technique Based on Use of Tables with S.K. Jain and Gulab Singh in proceedings of Sixth Annual International Conference on Information Technology (CIT03), Bhubaneshwar, Orissa, INDIA, December 2003. pp 455-460
13. Database Design for Nationwide Information System to Govern Country Effectively with S.K Jain and Gulab Singh in proceedings of the International Conference on E-Governance ,New Delhi,December 2003.
12. Design and Implementation of LRS - A Case Study with S. K. Jain and Gulab Singh, in proceedings of Sixth Annual International Conference Map India 2003, New Delhi January 2003.
11. Design of Compiler for Mobile Environment and Its Formalization using Evolving Algebra with G. K. Patnaik, in proceedings of the Third International Conference on Mobile Data Management (MDM02), Singapore, January 2002. pp 159-160.
10. Design and Implementation of Extended Transaction Support System with R. K. Ghosh, in proceedings of the Fourth International Conference on Information Technology(CIT01), Gopalpur on Sea, Orissa, INDIA, December 2001 pp 138-143
9. Contention-free Team Transaction Management and Recovery on Mobile Networks with Ad Hoc Groupings with R. K. Ghosh, in proceedings of the Fourth International Conference on Information Technology(CIT01), Gopalpur on Sea, Orissa, INDIA, December 2001 pp 31-36
8. Team Transaction: A New Transaction Processing Model for Mobile Ad Hoc Networks , with Ankur Gupta, Nitin Gupta and R. K. Ghosh Technical Report, Dept of CSE, IIT-Kanpur, November 2001
7. Recovery of Mobile Transactions with R. K. Ghosh in proceedings of the 11th International Workshop on Database and Expert Systems Applications (DEXA), September 2000, London UK, pp 23-27
6. Design of a Storage Manager Extendible in Transaction Support with R. K. Ghosh in Proceedings of Computer and Communication Engineering Technical Conference of the World Engineering Congress at Kuala Lumpur Malaysia July 1999
5. Recovery in Distributed Extended Long-lived Transaction Models with R.K.Ghosh in Proceedings of

VI International Conference on Database Systems for Advanced Applications DASFAA '99' at Hsinchu, Taiwan, R.O.C, April 1999.

4. Testable PLA Designs with Reduced Test Set with M.R.Mukerjee, in Journal Institute of Engineers, Malaysia, Vol 57, No.2 pp 7-15, 1996.
3. Two New Cost-effective BIST PLA Designs with M.R.Mukerjee and S.S.Basak, In Proceedings of XVI National Systems Conference, Madras (Chennai), India, pp 211-215, February 1993.
2. A Combinatorial method of Grouping Product-Terms for PLA Design with M.R.Mukerjee, In Proceedings of International AMSE Conference " Signals and Data Systems " Calcutta, India, AMSE press, Vol. 3, pp 75-90, December 1992.
1. Function Dependent Testable PLA Design with reduced Test-Set with M. R. Mukerjee, In Proceedings of XV National Systems Conference, Roorkee, India, pp 248-252 March 1992

Thesis / Projects Supervised

Ph.D Thesis Supervised:

7. Design and Implementation of Publish Subscribe based Peer-to-Peer Cloud of Underutilized Resources for providing Computation as-a-Service, with Dr Mayank Pandey, by Shashwati Banerjee (2012RCS53) PhD CSE 2017-18
6. An Energy Efficient Low Latency MAC Protocol for Clustered Wireless Sensor Networks by Sansar Singh Chauhan (2009RCS53) PhD CSE 2017-18
5. Self Localizing, Full-Covered, m-Connected 3D Wireless Sensor Network with Energy Aware Routing by Manas Kumar Mishra (2007RCS01) PhD CSE 2012-13
4. Trustworthy MANET for Secure Communication by Girish Kumar Patnaik (2004RCS03) PhD CSE 2012-13
3. An Efficient and Scalable Classification Method for Multi-Relational Databases by Reena Srivastava (2005RCS05) PhD CSE 2010-11.
2. A Secure, Energy Efficient, Cluster Based Sensor Network Data Routing Protocol by Maheshwari Prasad Singh (02RCS02) PhD CSE 2007-08.
1. Entity Relationship Schema Compression and Semantic Modeling of Databases Utilizing Structural Strength of Tables with Prof Gulab Singh, by Sanjay Kumar Jain (04RCS04) PhD CSE 2005-06.

PhD Thesis Supervised as External Guide:

2. Developing Intelligent Event Based Middleware for Information Dissemination in Vehicular Ad hoc Networks by Tulika Pandey nee Mishra with Dr Deepak Garg, Dept of CSE, Thapar University, Patiyala India 2014
1. Clustering Gene Expression Data, by Suvendu Kanungo with Prof. Gadadhar Sahoo, Dept. of IT, BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI,INDIA 2013

Enrolled PhD Students:

6. Intelligent Detection and Mitigation of DDOS Attack in SDN, with Dr. Shashank Srivastava, by Naziya Aslam (2019RCS52) PhD CSE and Project Employee **{Pursuing Course-Work}**.
5. Employing Association Rule Mining for Effective Evaluation of Choice-Based Examinations, by Abdul Aleem (2016RCS06) PhD CSE **{Delivered State-of-the-Art Seminar}**.
4. Demand Response Program in Cyber-Physical Energy Infrastructure, by Brijendra Pratap Singh (2014RCS01) PhD CSE **{Delivered State-of-the-Art Seminar}**.
3. Ensemble-Based Approaches for Stock Price Prediction Using Historical Data and News Articles, by Vijay Kumar Dwivedi (2013RCS06) PhD CSE **{Delivered State-of-the-Art Seminar}**.
2. Design and Implementation of Opportunistic Overlay and Underlay for P2P File Sharing among Mobile Nodes in IEEE 802.11 Networks, with Dr. Mayank Pandey, by Anurag Sewak (2013RCS51) PhD CSE **{Delivered OPEN Seminar}**.
1. Design and Deployment Issues for Recommender Systems, with Prof. A. K. Singh, by Rohit (2010RCS53) PhD CSE **{Delivered OPEN Seminar}**.

M.Tech Thesis Supervised:

114. Design and development of blockchain based paradigm for ease of Business by Babu Pallam (2017CS18) M.Tech (CS), 2018-19
113. Measurement and Analysis of Improvement across manuscript drafts by Akhilesh Kumar (2017SW07) M.Tech (SW), 2018-19
112. Effort Estimation for Web Portal Maintenance by Ransing Abhilasha Bhausaheb, (2016SW11) M.Tech (SW), 2017-18
111. Enterprise Web Portal Security and Deployment by Shailendra Pratap Singh, (2016IS19) M.Tech (IS), 2017-18
110. Dimension Reduction Based Sentiment Mining for Stock Price Prediction by Harsh Kumar,

(2015CS07) M.Tech (CS), 2016-17

109. Information Security using Visual Cryptographic Technique for Resource Constrained Devices by Rahul Kumar Singh, (2015IS22) M.Tech (IS), 2016-17
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107. Byzantine Fault Tolerance for Effective Demand Side Management in Hierarchical Smart Grid Communication Infrastructure by Ms Deepika Durgvanshi, (2014CS20) M. Tech (CS), 2015-16
106. Electricity Bill Settlement Using Retroactive Data Structure in Smart Grid by Ms Kratika Shukla, (2014IS06) M. Tech (IS), 2015-16
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104. Improving Bandwidth Utilization in Software Defined Networks by Sachin Tiwari, (2013IS13) M. Tech (IS), 2014-15
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102. An Evaluation of Alternatives for Improved Core Utilization in Multi-Core Machine by Pratyush Pachauri (2012IS25) M. Tech (IS), 2013-14
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76. Recommending People with Similar Interests on Social Network Sites with Mr. A K Singh by

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75. A Case Study on the Implementation of Hybrid Methodology Involving Scrum and Waterfall Model towards Software Project Development in Academic Knowledge Centers by Tarun Jain (2008SW11) M. Tech. Software Engineering, 2009-10
74. Study of Influence of Node Mobility on Trust in MANET by Amit Kumar Raikwar (2008IS14) M. Tech. Information Security, 2009-10
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70. Localization Scheme for Three Dimensional Wireless Sensor Networks Using GPS enabled Mobile Sensor Nodes with Mr A K Singh by Vibha Yadav (2007CS06) M.Tech. Computer Science and Engineering, 2008-09
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54. Periodic Active Scan for Faster Handoff in WLAN by Ukani Vijaykumar S. (2004CS17), M. Tech. Computer Science & Engineering , 2005-2006.
53. Cluster Based Routing Protocol for Energy Efficient Query Delivery in Wireless Sensor Networks by N. Jayalakshmi (2004SW08), M. Tech. Software Engineering, 2005-2006.
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47. Automated Building Plan Development for Building Features by Mr Anoop Kumar, M. Tech., Software Engineering, 2004-2005.
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Chawla (2003FTSW05), M. Tech Software Engineering, 2004-2005.

41. Something is Better Than Nothing- Curbing & Curing Distributed Denial of Service Attack with Mr. A. K. Singh, by Lokesh Krishan Gupta, M. Tech., CSE, 2003-2004.
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38. Web Based Workflow System: Case Study for an Academic Institution with Mr. A. K. Singh, by K. V. Ramanjaneyulu, M. Tech., Software Engineering, 2003-2004.
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36. Formalizing Database Recovery in Mobile Systems by Rahul Mishra, M. Tech. In IT, 2003-2004 at IIIT Allahabad.
35. Intrusion Detection in Dynamic Network with Dr O P Vyas by Santosh Kumar Dwivedi, M. Tech. In IT, 2003-2004 at IIIT Allahabad.
34. Effective Handover Management in Wireless ATM to Assure QoS by Vijay Kumar Chaurasiya, M. Tech. In IT, 2003-2004 at IIIT Allahabad.
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32. Path Stability Based Adaptation of Mobile Ad-Hoc Network Routing Protocol with Dr O P Vyas by Sandeep Chaudhary, M. Tech. In IT, 2003-2004 at IIIT Allahabad.
31. Design & Implementation of a Routing Protocol in Blue ware Using on-Demand Approach by M. Nageshwara Rao, M. Tech. In IT, 2003-2004 at IIIT Allahabad.
30. Design and Implementation of Secure Transaction Model in Tender Online by Mr Kiran Kumar Patnaik 2001CS16, M.Tech. CSE, 2002-2003.
29. Design and Implementation of Web Enabled Tender Service by Mr Suvendu Kanungo 2000/PT/SE/15, M.Tech Software Engineering, 2002-2003.
28. Workflow Management- Online Registration System by Mr Manindra Srivastava 2001/ME/FT/SE/03, M.Tech Software Engineering, 2002-2003.
27. An Extensible Framework for Indian Language Message Server with Mr. Pawan Kumar, by Maheshwari Prasad Singh, M. Tech., Software Engineering, 2002-2003.
26. Critical Performance Evaluation of Association Rule Mining Algorithms & Development of a New Approach for Association Rule Mining on Multiple Tables by Praveen Ranjan Srivastava, M. Tech., Software Engineering, 2002-2003.
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18. Design & Implementation of Compiler for Mobile Environment & its Formalization using Evolving Algebra by Girish Kumar Patnaik, M. E. CSE, 2000-2001.
17. Collaborative Transaction Framework: Implementation & Overhead Issues by Mayank Maheshwari, M. E., CSE, 2000-2001.
16. Automated Web Personalization Based on Web Usage Mining by Anil Kumar Singh, M. E., CSE, 2000-2001.
15. Implementation of Recovery Algorithm for Distributed Extended Transaction & Mobile Transaction by Arun Kumar, M. E. CSE, 2000-2001.
14. Design & Implementation of Web Usage Mining System with Prof. A. K. Misra, by Alpana Dubey, M. E. CSE, 2000-2001.
13. Design & Implementation of Tender Online with Security Issues by Samar Rastogi, M. E. CSE, 2000-2001.
12. Study of Client Data Hoarding in Mobile Computing Environment by K. Sridhara Babu, M. E. CSE, 1999-2000.
11. Electronic Examination System with Prof. Gulab Singh, by Kishore Kumar Oyyavuru, M. E. CSE, 1999-2000.
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8. Output Port Oriented Address Management Scheme for Central Queuing ATM Switch Architecture by Anuj Khanna, M. E. Digital Systems, 1999-2000.
7. An Implementation of Security Environment under Unify for Payment Voucher by N. Sambasiva Rao, M. E., CSE, 1994-95.

6. Multilevel Logic Synthesis using M(1) Multiplexer by Biswanath Mandal, M. E. Digital System, 1993-94.
5. A Min Cut Algorithm for VLSI Circuit Partitioning by Intersection Method, by Md. Sultan Ahmad Ansari, M. E. Digital System, 1993-94.
4. A Parallel Three Dimensional Shear Sort with Prof. M. R. Mukerjee, by Deepu Shyam, M. E. CSE, 1992-93.
3. Two New Efficient Self Checking Checkers using Berger Codes with Prof. M. R. Mukerjee, by Vijaya Kumar Thatte, M. E. Information Science & Engineering, 1992-93.
2. Image Processing System: Improved Boundary Detection Methods with Prof. Gulab Singh, by R. K. Prusti, M. E. Information Science & Engineering, 1992-93.
1. New Cost-Effective BIST PLA Design with Prof. M. R. Mukerjee, by S. S. Basak, M. E. Digital System, 1991-92.

B.Tech Projects Supervised:

Sl. No.	Title of Project	Institute	Name of student[s]	Year
1	Designing and developing a dataset generator for classification purpose (data mining) B.Tech (IT)	MNNIT Allahabad	Miss Anne Rajkumari Mr. Sapan Saxena Miss Yugkirty Singh Mr. Krishna Kumar Yadav	May 2008
2	Routing issues of sensor networks B.Tech (CSE)	MNNIT Allahabad	Miss Sonia Arora Miss Mudita Sharma Mr. Navanidhi Deori Mr. Ankit Marwaha Mr. Ashish Anand	May 2008
3	Architecture design for a distributed multiplayer game: Carrom B.Tech (CSE)	MNNIT Allahabad	Mr. Anshul Pandey Mr. Vikash Goyal Mr. Ankush Goyal Mr. Varun Arora Mr. Subhankar Rai	May 2008
4	Semantic Web Application for Social bookmarking and Tag sharing using SCOT Ontology B.Tech (CSE)	MNNIT Allahabad	Sandeep Kumar, Vinay Singh Kushwaha, Kavita Aditi Mehrotra, Amit Prabhakar, Atul Kumar Bara	May 2009
5	Fair Backoff Algorithm for Contention based networks using Game Theory B.Tech(CSE)	MNNIT Allahabad	Amit Kumar, Raghvendra Kumar Yadav, Ghanshyam Bansal, Sachin Dev, Vipin Kumar	May 2009
6	Project Control Tracker B Tech Information Technology	MNNIT Allahabad	Alok Nandan Jha, Ankit Tyagi, Gaurav Gaba, Harendra Kumar Suryavanshi, Prem Vardhan	May 2010
7	Moti-Miner: An Online Knowledge Analysis Tool B Tech Information Technology	MNNIT Allahabad	Avinash Dubey, Amulya Varshney, Deepak Arora, Rajani Kant, Areeb Shaarique	May 2010

8	Ad-Collegium (An Alumni Web Portal) B Tech Computer Sc & Engg	MNNIT Allahabad	Sneha Agarwal(20074068) Tarun Kumar (20077004) Sharique Hussain(20074038) Rohit Mittal(20074070) Maphisha Phanbuh(20074060)	May 2011
9	Content Management System for Providing Complete E learning System B Tech Information Technology	MNNIT Allahabad	Dileep Singh(20073067) Poonam Kashyap (20078005) Ojas Patil (20078003) M Karjodkar(20078014) Prashansa Javre(20078002)	May 2011
10	Automation of Stock Purchase In Computer Science & Engg Department B Tech Information Technology	MNNIT Allahabad	Jyotsana Srivastava(20078012) Priyanka Goyal(20077007) Shubhra Srivastava (20072008) Maria Kazmi (20078056) Raj Kumar Meena (20078035)	May 2011
11	Speech to Text Conversion through voice training B Tech Computer Sc & Engg	MNNIT Allahabad	Apurv Gupta (20085022) Manoj Deol (20074053) Kushal Singh (20084103) Raju Yadav (20084110) Aklesh K Singh (20074069)	May 2012
12	Attendance System Using Face Recognition B Tech Computer Sc & Engg	MNNIT Allahabad	Dhanendra Jain (20085045) Niteen K Singh (20084035) Neeraj (20084066) Naresh Bhatt (20084101)	May 2012
13	DBMS for Birds Around Allahabad B Tech Information Technology	MNNIT Allahabad	Nitin Gupta (20089025) Sahil Govil (20081003) Basu Bishal Bhaskar (20087096) Chandan K Rajak (20087086) Deepak Kumar (20087090)	May 2012
14	“The Gamers' Paradise” A Gaming Portal B Tech Computer Sc & Engg	MNNIT Allahabad	Bhaskar Kushwaha (20094056) A K Singh (20093078) Gobinath S (20097018) Mohd. Zeeshan (20091075) Subodh Kumar (20094076)	May 2013
15	One Time Cookies (for Security) B Tech Computer Sc & Engg	MNNIT Allahabad	Rahul Mittal (20099027) Rachit Kumar (20098045) Vivek Bajpai (20094037) Aman Kumar (20095070) Ashwani Kumar (20097025)	May 2013
16	Recommender System (Movie Vocabulary) B Tech Information Technology	MNNIT Allahabad	Varsha Mishra (20098017) Ratan Kumar (20098072) Alok Kumar (20098037) Sumit Prasad (20098087) Suraj Srestha (20098052)	May 2013
17	Content Management System for Providing E-learning B Tech Computer Sc & Engg	MNNIT Allahabad	Anupam Chaturvedi (20105011) Sachin Kumar Tiwari (20104068) Akash Srivastava (20108039) Nilesh Yadav (20104055) Pankaj (20104061)	May 2014
18	Notifier: Automated Notification System	MNNIT Allahabad	Bhavana Jain 20115079 Swapnil Katiyar 20114049 Piyush Jain 20115094 Neetu Singh Meena 20114099	May 2015
19	Campus Info	MNNIT Allahabad	Nishant Agarwal 20114087 Shubham Singh 20114077 Neeraj Arya 20111079 Tej Bahadur Prasad 20114058	May 2015

20	Recommendation System for Choosing Appropriate college for Admission	MNNIT Allahabad	Neha Singh 20111095 Anil Saroj 20118088 Ajay Kumar Rai 20118029 Anjali Singh 20118070	May 2015
21	Plagiarism Detection Using AST based Suffix Trees	MNNIT Allahabad	VIVEK AGARWAL 20124105 ABHIJIT KATIYAR 20123015 P BAISLA 20124134 A Thyagarajan 20128058	May 2016
22	Twitter Trends	MNNIT Allahabad	M SRIVASTAVA 20128048 R T JOB 20128007 S PATNY 20128102 Y SINGH 20128068 A K GAUR 20129024	May 2016
23	Interconnected MNNIT Network: Mobile App + DocTrack + BookMy Class	MNNIT Allahabad	D K SINGH 20129011 A KAMTHAN 20128047 C B GIRI 20128063 A K BAWANE 20128035 A K VERMA 20128050	May 2016
24	Smart Attendance System Using Face Recognition	MNNIT Allahabad	Ishan Roy 20134116 Shivangi Singh 20134049 Harshit Rastogi 20134062 Kartikya Mishra 20134047 T U Akash Unni 20134141	May 2017
25	MNNIT Alumni Association Web Portal and Email Engine	MNNIT Allahabad	Monika Jain 20138083 Anubhav Gupta 20138043 Shubham Gupta 20138077 P Vishnu Teja 20138108	May 2017
26	Flight Delay Prediction	MNNIT Allahabad	Mayank Garg 20144026 Vikrant Singh 20144042 Shubham Gupta 20144121 Ravi Singh 20144094 Yarasani Ravi Teja 20144117	May 2018
27	MediBot -A Healthcare Assistant	MNNIT Allahabad	Swapnil P. 20148030 Saubhagya A. 20148033 Narendra Pal 20148040 Prabhat D 20148027 Gaurav 20148073	May 2018
28	Blockchain based Food Supply Chain	MNNIT Allahabad	Manu Paliwal 20155098 Ali Akbar Ansari 20154052 Mahima Sachan 20154023 Abbaraju Soujanya 20154152 Kaushiki Mishra 20154013	May 2019
29	Testing One Online – MNNIT Unified Coding Hub (TOOMUCH)	MNNIT Allahabad	Deepanshu Gupta 20152017 Dhruv Sharma 20158026 Gudipati Sree Deepthi Reddy 20158031 Yogeshwar Patel 20158032 Pawan Subedi 20158001	May 2019