



## **MANUJ DARBARI (BE, ME, MBA, PhD(IS))**

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### **Profile**

*At present working as Assistant Professor in Department of Computer Science, BBD University, Lucknow, UP, India. Job includes teaching and guiding students in their Project/Thesis work and upgrading the syllabus as per the industry needs.*

*Additional responsibility includes coordinator-ship of M.Tech Computer Science programme of BBD University, Lucknow.*

### **Key Skills**

- Software Engineering
- Semantic web
- Information Architecture
- Ubiquitous Computing
- Software:
  - Java, XML, HTML, Enterprise Architect V3.51 for Business Modeling Using UML, Protegee 4.2, Hadoop.

### **Subjects / Courses Taught in U.G**

- Data Mining (2 times)
- Web Semantics (1 time)
- Enterprise Resource Planning (5 times)
- Supply chain Management (2 times)
- Fundamentals of Information Systems (4 times)
- Management Information systems (4 times)
- System Analysis and design (2 times)
- Object Oriented System Analysis and Design (1time)
- Data Communication and Computer Networks (3 times)
- Mobile Computing (1 time)
- Software Engineering (5 times)
- Operating Systems (4 times)

### **Subjects / Courses Taught in P.G**

- Software Agents (M .Tech)
- Agile Software Engineering (M .Tech)

## Projects Guided

- Number of Master's Projects Guided: 2.
- Number of Management Research Project (MRP) Guided: 3
- Number of PhD Guided: (Completed: 01, as Co-guide)

## Employment History

1. Working as Associate Professor in *Computer Science & Engineering Department* in *BBD University* (formally BBDNITM), Lucknow from July 2009 till date.
2. Worked as Assistant Professor in I.T & Operations in ICFAI Business School, IBS, Lucknow, form August 2008 to May 2009.
3. Worked as Assistant Professor in Information Technology Department in BBD University (formally BBDNITM), Lucknow from October 1999 to July 2008. The job responsibility included administrative and academic duties.
4. Worked as a Guest Lecturer in Department of Electronics Engineering in MNREC, Allahabad from July 1999 to October 1999. I was primarily responsible for delivering Lectures and Guiding students in their project work.

## Qualifications & Professional Memberships

### QUALIFICATIONS

- 2006-2011, **PhD in Information Science** under guidance of Dr. Bhaskar Karn, Associate Professor, Department of Information Technology, *Birla Institute of Technology*, Mesra, Ranchi.  
Thesis Title: "*Development of Software Using Activity Theory and Unified Modelling Language*".
- 2000-2001, **DAC (Post Graduate Diploma in Advance Computing)** awarded by CDAC Pune.
- 1995-1997, **Master of Business Administration** (M MEM), Marketing from Lucknow University.
- 1993-1995, **Master of Engineering** in Digital Systems from MNNIT, Allahabad University, Allahabad, UP, India.  
Specialization: *Software Engineering, Data Communication, MIS, Mobile Communication*.
- 1989-1993, **Bachelor of Engineering** in Electronics Engineering from Amravati University, Maharashtra, India.  
Specialization: *Communication Engineering, Analog & Digital systems, Real-Time systems*.

## Professional Memberships

- Member of Institution of Engineers (IEI), India.
- Member of Institution of Electronics & Telecommunications Engineers (IETE), India.
- Member of Institute of Electrical & Electronics Engineers (IEEE), USA.
- Member of All India Management Association (AMIMA), India
- Member of Computer Society of India (CSI), India.
- Member of Institute of Information, Communication and Electronics Engineers, Japan.
- Professional Member of Association of Information Systems, U.S.A.

## Training

- Attended Three Day Workshop on Bioinformatics Tools and Techniques organised by CIMAP, Lucknow. India (2000).
- Conducted Workshop on Research Methodologies for Teachers at ICFAI University Dehradun, India (2009).

## Publications

### INTERNATIONAL JOURNALS

1. [M Darbari, V Saxena, "Modelling Biological systems using Unified Theory Approach", ACM, Software Engineering Notes, Vol. 30, No.5, September 2005, USA. \(dblp\)](#)
2. [M Darbari, B Karn, R Goel, P K Bansal, "Information Design for Urban Traffic Simulation", Georgian Electronic Scientific Journal, Vol. II\(17\), 2008 Georgia.](#)
3. [M Darbari, B Karn, R Goel, P K Bansal, "Design of Bus Depot Management System using Unified Modelling Approach", Ubiquitous Computing and Communication Journal \(UBICC\), Vol. 3, No. 03, 2008 Korea.](#)
4. [M Darbari, B Karn, "Enterprise Modelling Using Unified Framework supporting Distributed Object Computing", Journal of International Technology and Information Management JITIM, Vol. 17, Issue 3/4, 2008 USA.](#)
5. [M Darbari, B Karn, V K Singh, H Ahmed, "Integrating Natural Language Requirements and OPEN Process Activity Theory Model for Semi Automatic Web Generation", International Review of Computers and Software, \(IRECOS\), Vol. 3, No. 3, May 2008, Italy. \(Scopus\)](#)
6. [M Darbari, B Karn, R Goel, P K Bansal, "Extension of UML \(OPEN\) Abstract Modelling to Develop Web Modelling Supporting Platform and Device Independence", Ubiquitous Computing and Communication Journal \(UBICC\), Vol. 05, No. 02, 2007 Korea.](#)
7. [M Darbari, B Karn, V K Singh, "Formal Verification of Open Process Environmental Notation Using OCL", International Review of Computers and Software, \(IRECOS\), Vol. 3 No.2, March 2008, Italy. \(Scopus\)](#)
8. [M Darbari, S Medhavi, A K Srivastava, "Application of UML for Modeling Urban Traffic System Using Producer Consumer Theory to Generate Process Algebra Model",](#)

Journal of International Technology and Information Management JITIM, Vol.16, Issue 4, 2007 USA.

9. **M Darbari**, A K Srivastava, S Medhavi, “Development of Effective Urban Road Traffic Management system Using Workflow Techniques For Upcoming Metro-cities like Lucknow (India)”. International Journal of Hybrid Information Technology, IJHIT Vol. No1, No.03, 2008, Korea.
10. **M Darbari**, A K Srivastava, S Medhavi, “Empirical Analysis of Urban Traffic System of Lucknow using Data Modeling and Capturing Technique”, Serbian Journal of Management, Vol. 3(2), 2008, Serbia.
11. **M Darbari**, A K Srivastava, S Medhavi, “Formal Verification of Urban Traffic System using the concept of Fuzzy Workflow System (FWS)”, in Journal of International Technology and Information Management JITIM, Issue 1, Vol. 18, 2009, USA.
12. **M Darbari**, A K Srivastava, S Medhavi, “PENTRAL: Pattern Based language”, will be published in Issue 3/4, Vol. 18, 2009 in Journal of International Technology and Information Management JITIM, USA.
13. A K Srivastava, M Darbari, H Ahmed, R Asthana, “Capacity Planning of an Insurance Company using Workflow Dynamics”, International Review of Computers and Software, (IRECOS), Vol. 5, No. 6, November, 2010, Italy. (Scopus)
14. **M Darbari**, N Dhanda, “Applying constraints in Model Driven Knowledge Representation Framework” International Journal of Hybrid Information Technology, IJHIT Vol. No.4, No.03, 2010, Korea.
15. **M Darbari**, V K Singh, R Asthana, S Prakash, “N-Dimensional Self-Organising Petrinets for Urban Traffic Modeling”, International Journal of Computer Science Issues, Vol. 7, No. 4, 2010 Mauritius.
16. **M Darbari**, R Asthana, V K Singh, “International Journal of Software Engineering”, International Journal of Software Engineering, Vol. 1, Issue 2, 2010 Malaysia.
17. **M Darbari**, P K Singh, R Kumar, S Eshan, S Prakash, “FRIX Traffic Analyzer”, “International Journal of Software Engineering”, Vol.2, No.4, 2010, International Journal of Software Engineering, Singapore.
18. P S Yadav, M Darbari, “Redistribution of Paid Channels by modifying Live Video”, Journal of Advance Information Technology, Vol. 1, Issue. 4, 2010, Academy Publisher, Finland. (Scopus)
19. S Prakash, M Darbari, “Quality & Popularity’ Prediction Modeling of TV Programme through Fuzzy QFD Approach”, Journal of Advance Information Technology, Vol. 3, Issue. 2, 2012, Academy Publisher, Finland. (Scopus)
20. **M Darbari**, H Ahmed, “Fuzzy Logic Application in modeling Bio-informatics Sequence Mark-Up Language (BSML)”, International Journal of Database Theory and applications, Vol.4, No. 1, 2011, Korea.

21. [M Darbari, H Ahmed, V K Singh, "Application of Fuzzy Automata Theory and Knowledge Based Neural Network for Development of Basic Learning Model", Journal of Computer Technology and Application, Vol. 2, No.1, January 2011 U.S.A.](#)
22. [M Darbari, R Asthana, H Ahmed and N Ahuja, "Enhancing the Capability of N-Dimension Self Organizing Petrinets using Neuro-Genetic Approach", International Journal of Computer Science and Engineering, May, 2011, Singapore.](#)
23. [S Bansal, M Darbari, "Designing Knowledge Based Expert System for Handling Business Dynamics", International Journal of Scientific and Engineering Research, Vol. 2, Issue 11, 2011 France.](#)
24. [M Darbari, H Ahmed, S Bansal, "Algorithmic Resolution of an ER Schema into Relational DDL Statements using Artificial Intelligence", International Journal of Scientific and Engineering Research, Volume 2, Issue 11, 2011, France.](#)
25. [L Kumar, A Pandey, S Srivastava, M Darbari, "Stock Marketing Prediction using Timed Genetic Modeling", Journal of International Technology and Information Management, Vol. 20, No. 1 ,2011, USA.](#)
26. [V K Singh, P K Shukla, M. Darbari, "CON-FORM: A Conceptual Fuzzy Object Role Modeling", Journal of Advance Information Technology, Academy Publisher, Finland.\(To be published online in 2013\) \(Scopus\)](#)
27. [P K Shukla, M Darbari, V K Singh, S.P Tripathi, "A Survey of Fuzzy Techniques in Object Oriented Databases", International Journal of Scientific and Engineering Research, Volume 2, Issue 11, 2011, France.](#)
28. [R Asthana, N J Ahuja, M Darbari, "Model Proving of Urban Traffic Control using Neuro Petrinets and Fuzzy Systems", International Review of Computers and Software, \(IRECOS\), Vol.6, No. 6, November 2011, Italy. \(Scopus\)](#)
29. [S Bansal, M Darbari, "Multi-Objective Intelligent Manufacturing System for Multi Machine Scheduling", International Journal of Advanced Computer Science and Applications\(IJACSA\),U.S.A, Volume 3 Issue 3 March 2012.](#)
30. [R Asthana, N J Ahuja, M Darbari, P K Shukla, "A critical Review on Development of Urban Traffic Models and Control Systems", International Journal of Scientific and Engineering Research, Vol.3, Issue 1, 2012 France.](#)
31. [N Dhanda, M Darbari, N J Ahuja, "Development of Multi Agent Activity Theory e-Learning\(MAT-eL\) Framework focusing on Indian Scenario", International Review of Computers and Software, \(IRECOS\), Vol.7, No. 4, July 2012, Italy. \(Scopus\)](#)
32. [I A Siddiqui and M Darbari "Application of Activity Theory and Particle Swarm Optimization Technique in Cooperative Software Development", International Review of Computers and Software \(IRECOS\), Vol. 7 No. 5, September 2012, Italy. \(Scopus\)](#)
33. [I A Siddiqui and M Darbari, "Use Case for Identification of Root Cause of the Dependencies and Mutual Understanding and Co-Operation Difficulties in Software](#)

Systems”, International Journal of Applied Information Systems, (IJAIS), Vol. 4, No.1, September 2012, USA.

34. S. Tahilyani, M Darbari, P K Shukla, “A New Multi Agent Cognitive Network Model for Lane-By-Pass Approach in Urban Traffic Control System”, International Review on Computers and Software , Volume 7 No.5 pp. 2179-2182 Papers Part A, September 2012, Italy. (Scopus)
35. S Lavania, M Darbari, N. J. Ahuja, P K Shukla, “Application of Evolutionary Algorithm in Managing the Trade-off between Complexity of Software and its Deliverables”, International Review on Computers and Software, vol. 7, no. 6, 2012, Italy. (Scopus)
36. D Yagyasen, M Darbari, P K Shukla, V K Singh, “Diversity and Convergence Issues in Evolutionary Multi-objective Optimization: Application to Agriculture Science”, 2013 IERI Procedia, Elsevier. (Scopus)
37. D Yagyasen, M Darbari, H Ahmed, “Transforming Non-Living to Living: A Case on Changing Business Environment”, 2013, IERI Procedia, Elsevier. (Scopus)
38. S Tahilyani, M Darbari, P K Shukla, “Soft Computing Approaches in Traffic Control Systems: A Review”, 2013 AASRI Procedia, Elsevier. (Scopus)
39. V Prakash, M Darbari, New Proposal for Distributed System Security Framework, on Parallel and Distributed Computing and Systems, AASRI Procedia, 2013, Elsevier. (Scopus)
40. S S Ahmad, H Purohit, F Alshaikhly, M Darbari, "Information Granules for Medical Infonomics", Int. J. of Information and Operations Management Education (IJIOME) Vol. 5, No. 3, 2013, Inderscience.
41. R Prasad , M Drabari , D Yagyasen, “Developing Semantic Web in Homeopathy Using TopBraidComposer ”, International Journal of Scientific and Engineering Research 5 (2), 167-171
42. M Darbari, P Sahai, “Adaptive e-Learning Multi-Agent Systems with Swarm Intelligence”, International Journal of Applied Information Systems 7(3):16-20, May 2014. Published by Foundation of Computer Science, New York, USA.
43. M Darbari, P Sahai, “Adaptive e-learning using Granulerised Agent Framework”, International Journal of Scientific and Engineering Research 5 (3), 167-171
44. G Kant, Vivek Kumar Singh, Manuj Darbari, Diwakar Yagyasen and Praveen Shukla, “Legal semantic web- A Recommendation System” International Journal of Applied Information Systems 7(3):16-20, May 2014. Published by Foundation of Computer Science, New York, USA.

## INTERNATIONAL CONFERENCES:

1. **M Darbari**, B Karn, H Ahmed, “Modelling Intelligent Transport System Using OPAT: A Language to transform Multi Agent System in Object oriented Notation”, 2008 IAENG International Conference on Computer Science. March 2008, Hong Kong. (IAENG Engineering Letters, U.S.A). (Scopus) (Thomson Reuter)
2. **M Darbari**, H Ahmed, “Expressing Software Requirements of Embedded Systems Using Discrete Structures”, World Congress on Engineering 2010.London, U.K. (IAENG Engineering Letters, U.S.A). (Scopus) (Thomson Reuter)
3. **M Darbari**, N Srivastava, S Lavania, S Bansal, “Information Modeling of Urban Traffic Simulation using Fuzzy Stochastic Approach”, World Congress on Engineering 2010.London, U.K. (IAENG Engineering Letters, U.S.A). (Scopus) (Thomson Reuter)
4. **M Darbari**, S Prakash, A K Srivastava and S S Ahmed, “Application of Fuzzy Quality Function Deployment (QFD) in designing Urban Traffic System for Upcoming Metro-cities like Lucknow”, IBIMA Conference on Global Business Transformation and Knowledge Management- 2010, Istanbul. . (Scopus) (Thomson Reuter)
5. D Yagyasen, M Darbari , H Ahmed, “Development of Web-Eco-AT Framework for Changing Business Environment”, Advances in Intelligent Systems and Computing-2014 CPS Digital Library.
6. R S Verma, P K Shukla, **M Darbari**, “A New Approach of Conceptual Data Modeling of Spatial Databases using Fuzzy Logic”, 4th International Conference on Recent Trends in Information, Telecommunication and Computing, ITC 2013 (**Elsevier**). (Scopus) (Thomson Reuter).
7. A Tiwari, P K Patel, **M Darbari**, “Global Prospect of Distributed Agile Software Development: A Review”, Recent Trends in Computing and Communication Engineering - RTCCE 2013.
8. S Lavania, **M Darbari**, N Ahuja, I A Siddqui, “Genetic Algorithms-Fuzzy based Trade-Off Adjustment between Software Complexity and Deliverability”, 9th Annual International Joint Conferences on Computer, Information, Systems Sciences, & Engineering, -2013, Springer. (Thomson Reuter).
9. S Lavania, **M Darbari**, N Ahuja, I A Siddqui, “Application of Computational Intelligence in Measuring the Elasticity between Complexity and Deliverability”, 4th IEEE International Advanced Computing Conference - IACC 2014. (Thomson Reuter).
10. D Yagyasen, **M Darbari**, “Application of Semantic Web and Petri Calculus in changing Business Scenario”, Advances in Intelligent Systems and Computing - ISSN 2194-5357, Springer . (Thomson Reuter).
11. S Mishra, **M Darbari**, D Yagyasen, “Development of an Ontological Framework to Map the Diagnostic Process with Special Reference to Tuberculosis”, International Conference on Communication and Computing (2014), Elsevier.
12. H Pandey, **M Darbari**, “Estimation of Software Quality Parameters using Combination of Quality Function Deployment and Messy Genetic Algorithm”, IEEE International Conference on Signal Propagation and Computer Technology (ICSPCT)-2014

13. [N Khare, M Darbari, "Petri Log: A Toolkit for an Intelligent Collaborative Agent for Rural Health Care", International Conference on Communication and Computing \(2014\), Elsevier.](#)
14. [N Khare, M Darbari, "UPMA: Ubiquitous Patient Monitoring and Administration Framework ", IEEE Conference on Advances in Engineering and Technology Research \(ICAETR-2014\).](#)
15. [M Darbari, K S Pathak,"Making Renewable Energy SMART using Internet of Things\(IOT\)", IEEE Conference on Advances in Engineering and Technology Research \(ICAETR-2014\).](#)

#### **NATIONAL JOURNALS:**

1. **M Darbari**, V Saxena, "Enterprise modeling using Activity Theory and Workflow Analysis", ICFAI Systems Journal. Vol. 1, No.3, November 2003.
2. **M Darbari**, V Saxena, "UML Model Management Using Case Tools and Packages", Journal of Decision and Mathematical Sciences, Vol. 19, No.2, 2004.
3. **M Darbari**, S Medhavi, A K Srivastava, "Analyzing the Variability Of Queuing Models To Predict The Capacity of A Road Network Using Heuristic Approach", Journal of Advance Research in Computer Engineering, JARCE, Issue, January–May 2008.
4. **M Darbari**, S Medhavi, A K Srivastava, "Resolving Traffic Management Crisis through Behavioural Issues in Upcoming Metro-Cities like Lucknow", Asian Journal of Management, Volume 1, No. 02, July-December,2009.

#### **NATIONAL CONFERENCES:**

1. **M Darbari**, V Saxena, "UML Modeling using OPEN Tool Box of Techniques", for National Conference on Software Engineering Principles and Practices SEPP-2004, at Thapar Institute, Patiala.
2. **M Darbari**, V Saxena, "Process modeling : Using Activity Theory to Mitigate Risk", for 91st Indian Science congress, Chandigarh, 2002.
3. **M Darbari**, V Saxena, "Business Process Modeling Using Activity Theory and Unified Theory", for RTICTA-2002 at North Maharashtra University, Jalgaon, 2002.
4. **M Darbari**, V Saxena, "Enterprise modeling using Activity theory and Workflow Analysis", Department of Computer Science & Engineering, Guru Jambheshwar University, Hisar, 2002.
5. A Srivastava, **M Darbari**, V K Singh, "An Efficient Evaluation of Requirements Engineering Maturity Measurement Framework for Medium and Small Scale Software Companies", IEEE International Advance Computing Conference' 2009 (IACC), at Thapar Institute, Patiala.

#### **Books Published:**

(for Undergraduate courses in Engineering)

1. "Operating systems", Umesh Publications, New Delhi.



2. "Software Engineering", S.K. Kataria, New Delhi.
3. "Foundations of Information Technology", Galgotia and Sons, New Delhi.
4. "[Intelligent Urban Traffic Modeling Using Neuro-Fuzzy Petrinets](#)", Scholar Press, Germany.

#### **Reviewer in Journals and Conferences :**

1. International Journal of Information Security, IJCN, U.S.A
2. Computer Technology and Applications, U.S.A
3. Baltic Journal of Management, Emerald Publication, Germany.
4. INFOCOMP Journal of Computer Science, Brazil.
5. IEEE Symposium on Computers & Informatics 2012.
6. International Conference in Computer Applications and Industrial Electronics (ISCAIE-2012).
7. IEEE Conference on E-Learning and E-Technologies in Education (ICEEE-2012).
8. InSITE Conference 2012, organized by Informing Science, U.S.A.
9. The International Conference on Informatics & Applications ICIA2012 , organized by The Society of Digital Information and Wireless Communications (SDIWC), Malaysia.
10. Journal of Advance Information Technology, Academy Publisher, Finland.
11. International Journal of Computational Intelligence Techniques, India.
12. International Journal of Software Engineering, Malaysia
13. International Journal of Advanced Computer Science and Applications(IJACSA), U.S.A
14. International Journal of IEEE Student Conference on Research and Development [SCORED 2012].
15. IEEE Symposium on Computers & Informatics, 2013.
16. CITA 2013.
17. Journal of Control and Systems Engineering, Bowen Publishing Company Ltd, NY, USA.
18. Editor, Online Journal of Engineering and Technology Research, Africa.
19. Referee Board in AJIT-e, Academic Journal of Information Technology, Turkey.
20. Reviewer, InSITE 2014: Informing Science + IT Education Conference: Australia
21. Reviewer, "Game Theoretic Analysis of Congestion, Safety and Security", Book Series, Springer.
22. Reviewer, Science and Information Conference 2014, London UK.
23. Worked as Expert Committee Member on behalf of BBD University for a Project by State Government "To study the Impact of SIS (Sugarcane Information System) in U.P. "

#### **[Google Scholar link](#)**

#### **[Linked Link](#)**

#### **Hobbies & Interests**

- Cricket.
- Watching Fiction Movies.

### Personal Details

Date of Birth : 15th September 1970  
Status : Married, 01 child  
Nationality : INDIAN  
Driving license : Indian Driving License. (Valid in India Only).  
Languages Known : English, Hindi, French(Beginner Level).

### Special Achievements

- Selected by:  
*“Marquis Who’s Who in Science and Engineering”*,  
for biographical record, Seventh Edition, 2003-2004. USA.

### References

1. Dr. Bhaskar Karn,  
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Department of Information Technology,  
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**(MANUJ DARBARI)**