

CURRICULUM - VITAE

Name : MIRZA MOHD. SUFYAN BEG

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Jamia Millia Islamia (A Central University)
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EDUCATIONAL QUALIFICATIONS:

<u>Examination</u>	<u>University</u>	<u>Year</u>	<u>Result</u>	<u>Marks</u>
Postdoctoral Work	UC Berkeley, U.S.A.	2005-06	-	-
Ph.D. (Computer Technology)	I. I. T. Delhi	2002	-	CPI=9.00/10 (Pre-PhD Courses)
M.Tech. (Microelectronics)	I. I. T. Kanpur	1994	I Division	CPI=8.57/10
B.Sc. Engg. (Electronics)	A.M.U. Aligarh	1992	I Division I Position	CPI=9.92/10
S.S.S.C. (Std. XII)	A.M.U. Aligarh	1988	I Division II Position	83.25 %
S.S.C. (Std. X)	A.M.U. Aligarh	1986	I Division I Position	81.85 %

- **Postdoctoral Work** : “*Precisiating Natural Language for a Question Answering System*” (**University of California, Berkeley, U.S.A.**).
- **Ph.D. Thesis** : “*On Measurement and Enhancement of Web Search Quality*” (**I.I.T. Delhi, India**).
- **M.Tech. Project** : “*Design of ADSP 2100-Based Multiprocessor Array*” (**I.I.T. Kanpur, India**).
- **B.Sc. Engg. Project** : “*Custom Specific IC Design of a Digital Frequency Meter Using VINYAS-GX*” (**A.M.U. Aligarh, India**).

WORK EXPERIENCE:

1. Professor in the Department of Computer Engineering, Jamia Millia Islamia, New Delhi from March 1, 2007 till date.
2. Head of the Department of Computer Engineering, Jamia Millia Islamia, New Delhi from February 11, 2008 to Feb. 10, 2011.
3. Reader in the Department of Computer Engineering, A.M.U., Aligarh from May 12, 2004 to Feb. 28, 2007.
4. BT Fellow at the Berkeley Initiative in Soft Computing (BISC), Department of Computer Science, University of California at Berkeley, USA from November 2005 to October 2006.
5. Lecturer (Selection Grade) in the Department of Computer Engineering, A.M.U., Aligarh from April 9, 2004 to May 11, 2004.
6. Senior Lecturer in the Department of Computer Engineering, A.M.U., Aligarh from April 9, 1999 to April 8, 2004.
7. Lecturer in the Department of Computer Engineering, A.M.U., Aligarh from Aug. 19, 1994 to April 8, 1999.
8. Lecturer in the Department of Electronics Engineering, A.M.U., Aligarh from April 9, 1994 to Aug. 18, 1994.
9. Teaching Assistant in the Department of Electrical Engineering, Indian Institute of Technology, Kanpur from July 27, 1992 to April 8, 1994.

PUBLICATIONS:

Book Chapters:

1. **M. M. S. Beg**, N. Ahmad, "*Fuzzy Logic and Rank Aggregation for the World Wide Web*" In "*Fuzzy Logic and the Internet, Studies in Fuzziness and Soft Computing*" (V. Loia, M. Nikraves, L. A. Zadeh, Eds.), Springer-Verlag, 2004, ISBN 3-540-20180-7, pp. 27-46.
2. **M. M. S. Beg**, N. Ahmad, "*Subjective Enhancement and Measurement of Web Search Quality*" In "*Enhancing the Power of the Internet, Studies in Fuzziness and Soft Computing*" (M. Nikraves, B. Azvine, R. Yager, L. A. Zadeh, Eds.), Springer-Verlag, 2004, ISBN 3-540-20237-4, pp. 95-129.
3. **M. M. S. Beg**, N. Ahmad, "*Measuring User Satisfaction in Web Searching*" In "*Computational Intelligence for Modelling and Predictions*" (S. K. Halgamuge, L. Wang, Eds.), Springer-Verlag, 2005, ISBN 3-540-26071-4, pp. 321-336.
4. Z. Qin, M. Thint, **M. M. S. Beg**, "*Deduction Engine Design for PNL-based Question Answering System*," In "*Foundations of Fuzzy Logic and Soft Computing*" (P. Melin, O. Castillo, L. T. Aguilar, J. Kacprzyk, W. Pedrycs, Eds.), Lecture Notes in Artificial Intelligence, LNAI 4529, Subseries of Lecture Notes in Computer Science, Springer, 2007, ISBN 978-3-540-72917-4, pp. 253-262.
5. R. Ali, **M. M. S. Beg**, "*Aggregating Subjective and Objective Measures of Web Search Quality using Modified Shimura Technique*" In "*Forging the New Frontiers: Fuzzy Pioneers II, Studies in Fuzziness and Soft Computing*" (M. Nikraves, J. Kacprzyk, L. A. Zadeh, Eds.), Springer-Verlag, 2008, ISBN 978-3-540-73184-9, pp. 269-293.
6. B. Garg, **M. M. S. Beg**, A. Q. Ansari, B. M. Imran, "*Fuzzy Time Series Prediction Model*," In "*Information Intelligence, Systems, Technology and Management*" (S. Dua, S. Sahni, D. P. Goyal, Eds), Springer, 2011, ISBN 978-3-642-19422-1, pp. 126-137.
7. B. Garg, **M. M. S. Beg**, A. Q. Ansari, B. M. Imran, "*Soft Computing Model to Predict Average Length of Stay of Patient*," In "*Information Intelligence, Systems, Technology*

and Management” (S. Dua, S. Sahni, D. P. Goyal, Eds), Springer, 2011, ISBN 978-3-642-19422-1, pp. 221-232.

Journal Papers:

1. **M. M. S. Beg**, C. P. Ravikumar, "Application of Parallel and Distributed Data Mining in e-Commerce", J. IETE Technical Review special issue on e-Commerce, vol. 17, no. 4, July-August, 2000, pp. 189-195.
2. **M. M. S. Beg**, N. Ahmad, "Harnessing the Hyperlink Structure of the Web", J. IETE Technical Review special issue on IT-Enabled Services, vol. 18, no. 4, July-August, 2001, pp. 337-342.
3. **M. M. S. Beg**, "From Content Based to Connectivity Based Search on the World Wide Web - A Journey Trail", Journal of Scientific and Industrial Research, vol. 61, September 2002, pp. 667-679.
4. **M. M. S. Beg**, N. Ahmad, "Soft Computing Techniques for Rank Aggregation on the World Wide Web", World Wide Web – An International Journal, Kluwer, vol. 6, issue 1, March 2003, pp. 5-22.
5. **M. M. S. Beg**, "A Subjective Measure of Web Search Quality," International Journal of Information Sciences, Elsevier, vol. 169, no. 3-4, 2005, pp. 365-381.
6. **M. M. S. Beg**, "User Feedback Based Enhancement in Web Search Quality," International Journal of Information Sciences, Elsevier, vol. 170, no. 2-4, 2005, pp. 153-172.
7. **M. M. S. Beg**, N. Ahmad, "Modified Rank Coefficient for Subjective Measurement of Web Search Quality," International Journal of Lateral Computing, vol. 1, no. 1, May 2005, pp. 31-36.
8. R. Ali, **M. M. S. Beg**, "A Framework for Evaluating Web Search Systems," WSEAS Transactions on Systems, vol. 6, issue 2, Feb. 2007 (ISSN 1109-2777), pp. 257-264.
9. R. Ali, **M. M. S. Beg**, "Aggregating Subjective Measure of Web Search Quality with Boolean Similarity Measures," Journal of Computer Science, ICFAI University Press, vol. 1, no. 1, July 2007, pp. 25-40.
10. **M. M. S. Beg**, N. Ahmad, "Web Search Enhancement by Mining User Actions," International Journal of Information Sciences, Elsevier, vol. 177, Issue 23, December 2007, pp. 5203-5218.
11. R. Ali, **M. M. S. Beg**, "User feedback based Metasearching using Rough Set Theory," International Journal of Fuzzy Systems and Rough Systems (IJFSRS), volume 1, issue 2, 2008, pp. 45-56.
12. B. Garg, **M. M. S. Beg**, A. Q. Ansari, "Scheme of Neural Network for Time Series Analysis," Journal of Computer Science and Information Technology, Institute of Technology and Management, vol. 7, No. 1, (ISSN: 0973-4872), July-Dec. 2008, pp. 5-9.
13. B. Garg, **M. M. S. Beg**, A. Q. Ansari, "Optimizing Number of Inputs to Classify Breast Cancer Using Artificial Neural Network," International Journal of Computer Science and Systems Biology, OMICS Publishing Group, vol. 2, No. 4, (ISSN: 0974-7230), August 2009, pp. 247-254.
14. R. Ali, **M. M. S. Beg**, "A Comparative Study of Rough Set and Fuzzy Set based Rank Aggregation Techniques for the Web," International Journal of Information Processing (IJIP), ISSN 0973 – 8215, volume 3, number 1, 2009, pp. 78-91.
15. **M. M. S. Beg**, "Guest Editorial – Life with Fuzzy Logic and its Father," CSI Communication's Special Issue on Fuzzy Computing, ISSN 0970-647X, volume 34, number 8, November 2010, pp. 4-5.

16. R. Ali, **M. M. S. Beg**, "Aggregating Content and Connectivity Based Techniques for the Measurement of Web Search Quality," International Journal of Computer & System Engineering (IJCSE) (In press).
17. B. M. Imran, **M. M. S. Beg**, "Elements of Sketching with Words," International Journal of Granular Computing, Rough Sets and Intelligent Systems (IJGRSIS), Inderscience Publishers, (In press).

International Conference Papers:

1. **M. M. S. Beg**, C. P. Ravikumar, "Measuring the Quality of Web Search Results", Proc. 6th International Conference on Computer Science and Informatics - a track at the 6th Joint Conference on Information Sciences (JCIS 2002), March 8-13, 2002, Durham, NC, USA, pp. 324-328.
2. **M. M. S. Beg**, N. Ahmad, "Web Search by Feedback Learning", Proc. 6th International Conference on Computer Science and Informatics - a track at the 6th Joint Conference on Information Sciences (JCIS 2002), March 8-13, 2002, Durham, NC, USA, pp. 334-338.
3. **M. M. S. Beg**, N. Ahmad, "Genetic Algorithm Based Rank Aggregation for the Web", Proc. 6th International Conference on Computer Science and Informatics - a track at the 6th Joint Conference on Information Sciences (JCIS 2002), March 8-13, 2002, Durham, NC, USA, pp. 329-333.
4. N. Ahmad, **M. M. S. Beg**, "Fuzzy Logic Based Rank Aggregation Methods for the World Wide Web", Proc. International Conference on Artificial Intelligence in Engineering and Technology (ICAIET 2002), Malaysia, June 17-18, 2002, pp. 363-368.
5. **M. M. S. Beg**, N. Ahmad, "Web Searching Personalized," Proc Twelfth International Conference on Applications of Neural Networks in Engineering - Smart Engineering System Design using Neural Networks, Fuzzy Logic, Evolutionary Programming, Data Mining and Artificial Life (ANNIE 2002), St. Louis, USA. November 10-13, 2002, pp. 1025-1032.
6. **M. M. S. Beg**, N. Ahmad, "An Improved Method of Measuring the Quality of Web Search Results," Proc. International Conference on Fuzzy Systems and Knowledge Discovery (FSKD'02), Singapore, November 18-22, 2002, pp. 423-427.
7. **M. M. S. Beg**, "Novel Fuzzy Queries for Searching the World Wide Web," Proc. International Conference on High Performance Computing (HiPC 2002) Workshop on Soft Computing (WOSCO 2002), Bangalore, December 18-21, 2002.
8. N. Ahmad, **M. M. S. Beg**, "Improved Methods for Rank Aggregation on the World Wide Web," Proc. International Conference on Knowledge Based Computer Systems (KBCS 2002), Mumbai, India, December 19-21, 2002, pp. 193-202.
9. **M. M. S. Beg**, N. Ahmad, "Improved Shimura technique for Rank Aggregation on the World Wide Web," Proc. 5th International Conference on Information Technology (CIT 2002), Bhubaneswar, India, December, 21-24, 2002.
10. **M. M. S. Beg**, "Parallel Rank Aggregation for the World Wide Web," Proc. International Conference on Intelligent Sensing and Information Processing (ICISIP – 2004), Chennai, India, January 4-7, 2004, IEEE Press, pp. 385-390.
11. **M. M. S. Beg**, N. Ahmad, "Modified Rank Coefficient for Subjective Measurement of Web Search Quality," First World Congress on Lateral Computing (WCLC 2004), Dec. 17-19, 2004, Bangalore, India (**Bagged the Best Paper Award**).
12. **M. M. S. Beg**, R. Ali, "A Subjective cum Objective Measure of Web Search Quality," 2nd International Conference on Intelligent Sensing and Information Processing, (ICISIP-2005), Jan. 4-7, 2005, Chennai, India, IEEE Press, pp. 365-370.

13. R. Ali, **M. M. S. Beg**, "Aggregating Subjective Measure of Web Search Quality with Boolean Similarity Measures," Second World Congress on Lateral Computing (WCLC 2005), Dec. 16-18, 2005, Bangalore, India.
14. R. Ali, **M. M. S. Beg**, "Aggregating Web Search Quality Measures using Modified Shimura Technique," Proc. 4th WSEAS International Conference on Information Security, Communications and Computers (ISCOCO 2005), Dec. 16-18, 2005, Tenerife, Spain, pp. 429-452.
15. R. Ali, **M. M. S. Beg**, "Aggregating Subjective Measure of Web Search Quality with PageRank", the 2006 International Conference on Information and Knowledge Engineering (IKE'06) - a track at the 2006 World Congress on Computer Science, Computer Engineering, and Applied Computing (WORLDCOMP'06), June 26-29, 2006, Las Vegas, USA, pp. 167-173.
16. R. Ali, **M. M. S. Beg**, "A Comprehensive Model for Web Search Evaluation", 5th WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing (CSECS '06), Nov. 1 – 3, 2006, Dallas, USA, pp. 159-164.
17. R. Ali, **M. M. S. Beg**, "Aggregating Subjective and Objective Measures of Web Search Quality using Modified Shimura Technique", Proc. 9th IEEE International Conference on Information Technology (ICIT 2006), Dec. 18 – 21, 2006, Bhubaneshwar, India, IEEE Press, pp. 231-234.
18. R. Ali, **M. M. S. Beg**, "Aggregating Content and Connectivity based Techniques for the Measurement of Web Search Quality", Proc. 14th International Conference on Advance Computing and Communication (ADCOM 2006), Dec. 20 – 23, 2006, NIT Surathkal, India, IEEE Press, pp. 44-49.
19. Z. Qin, M. Thint, **M. M. S. Beg**, "Deduction Engine Design for PNL-based Question Answering System," Proc. 12th International Fuzzy Systems Association World Congress (IFSA 2007), Cancun, Mexico, June 18-21, 2007, pp. 253-262.
20. M. Thint, **M. M. S. Beg**, Z. Qin, "Precisiating Natural Language for a Question Answering System", Proc. 11th World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2007), Orlando, USA, July 8-11, 2007, pp. 165-170.
21. **M. M. S. Beg**, M. Thint, Z. Qin, "PNL-Enhanced Restricted Domain Question Answering System", Proc. 2007 IEEE International Conference on Fuzzy Systems (FUZZ-IEEE 2007), Imperial College, London, UK, July 23-26, 2007, pp. 1277-1283.
22. H. Farheen, **M. M. S. Beg**, "Query Expansion using Parallel Search and Learn Technique", 5th Annual Conference on Information Science Technology and Management (CISTM 2007), Hyderabad, India, July 16-18, 2007, pp. 33-1 to 33-16.
23. R. Ali, **M. M. S. Beg**, "Rough Set Based Rank Aggregation for the Web", 3rd Indian International Conference on Artificial Intelligence (IICAI-07), Pune, India, December 17-19, 2007, pp. 683-698.
24. R. Ali, **M. M. S. Beg**, "A Learning Algorithm for Metasearching using Rough Set Theory", 10th International Conference on Computer and Information Technology (ICCIT 2007), Dhaka, Bangladesh, December 27-29, 2007, pp. 361-366.
25. R. Ali, **M. M. S. Beg**, "User Feedback Based Metasearching Using Rough Set Theory", Proc. 2008 International Conference on Information and Knowledge Engineering (IKE'08) - a track at the 2008 World Congress in Computer Science, Computer Engineering and Applied Computing (WORLDCOMP'08), Las Vegas, USA, July 14-17, 2008, pp. 489-495.
26. N. Gangal, **M. M. S. Beg**, "Finding the Interesting Rules First", Proc. 2008 International Conference on Data Mining (DMIN'08) - a track at the 2008 World Congress in

- Computer Science, Computer Engineering and Applied Computing (WORLDCOMP'08), Las Vegas, USA, July 14-17, 2008, pp. 689-694.
27. R. Ali, **M. M. S. Beg**, "*Automatic Performance Evaluation of Web Search Systems using Rough Set Based Rank Aggregation*", Proc. IEEE Workshop on Recent Trends in Human Computer Interaction, IIIT Allahabad, January 19-21, 2009, Springer, ISBN No. 978-81-8489-203-1, pp. 344-358.
 28. B. M. Imran, **M. M. S. Beg**, "*Image Retrieval by Mechanization and f-Principle*", Proc. Second International Conference on Data Management (ICDM2009), February 10-11, 2009, IMT Ghaziabad, India, McMillan Advanced Research Series, ISBN 023-063-762-0, pp. 157-165.
 29. R. Ali, **M. M. S. Beg**, "*Modified Rough Set Based Aggregation for Effective Evaluation of Web Search Systems*", Proc. 28th North American Fuzzy Information Processing Society Annual Conference (NAFIPS 2009), University of Cincinnati, Ohio, USA, June 14-17, 2009, IEEE Press (978-1-4244-4577-6/09/\$25.00 ©2009 IEEE).
 30. B. Garg, **M. M. S. Beg**, A. Q. Ansari, B. M. Imran, "*Inferential Historical Survey of Time Series Prediction using Artificial Neural Network*," Proc. 3rd International Conference on Data Management, Ghaziabad, India, March 11-12, 2010, pp. 158-172.
 31. B. M. Imran, **M. M. S. Beg**, "*Element of Sketching with Words*", 2010 IEEE International Conference on Granular Computing (GrC 2010), Silicon Valley, USA, August 14-16, 2010, IEEE Computer Society Press, pp. 241-246.
 32. V. Sharma, **M. M. S. Beg**, "*A Probabilistic Approach to Apriori Algorithm*", IEEE International Conference on Granular Computing (GrC 2010), Silicon Valley, USA, August 14-16, 2010, IEEE Computer Society Press, pp. 402-408.
 33. B. M. Imran, **M. M. S. Beg**, "*Automation of PNL-based f-Image Retrieval System*", Proc. International Conference on Computational Vision and Robotics (ICCV 2010), August 21-22, 2010, Bhubaneswar, India, pp. 291-298.
 34. B. Garg, **M. M. S. Beg**, A. Q. Ansari, B. M. Imran, "*Fuzzy Time Series Prediction Model*," 5th International Conference on Information Systems, Technology and Management (ICISTM-2011), Gurgaon, India, March 10-12, 2011, pp. 126-137.
 35. B. Garg, **M. M. S. Beg**, A. Q. Ansari, B. M. Imran, "*Soft Computing Model to Predict Average Length of Stay of Patient*," 5th International Conference on Information Systems, Technology and Management (ICISTM-2011), Gurgaon, India, March 10-12, 2011, pp. 221-232.
 36. Rashid Ali, Anjali Saxena and Richa Gupta, **M. M. S. Beg**, "*Myriad- a Novel User Feedback Based Metasearch Engine*," Proc. 2011 International Conference on Control, Robotics and Cybernetics (ICRC 2011), New Delhi, India, March 19-20, 2011, IEEE Press, IEEE Catalog Number: CFP1176M-PRT, ISBN: 978-1-4244-9709-6, pp. (v1) 163-167.
 37. B. Garg, **M. M. S. Beg**, A. Q. Ansari, "*Employing OWA to Optimize Fuzzy Predicate*," World Conference on Soft Computing (WConSC 2011), San Francisco State University, USA, May 23-26, 2011.
 38. B. Garg, **M. M. S. Beg**, A. Q. Ansari, "*OWA based Fuzzy Time Series Forecasting Model*," World Conference on Soft Computing (WConSC 2011), San Francisco State University, USA, May 23-26, 2011.
 39. B. M. Imran, **M. M. S. Beg**, "*Towards Computational Forensics with f-geometry*," World Conference on Soft Computing (WConSC 2011), San Francisco State University, USA, May 23-26, 2011.
 40. B. Garg, **M. M. S. Beg**, A. Q. Ansari, "*Enhanced Accuracy of Fuzzy Time Series Predictor using Genetic Algorithm*," Accepted for presentation at the Third World Congress on

Nature and Biologically Inspired Computing (NaBIC2011) to be held at the University of Salamanca, Spain during October 19-21, 2011 and for publication in the conference proceedings published by IEEE.

41. B. Garg, **M. M. S. Beg**, A. Q. Ansari, "*Employing Genetic Algorithm to Optimize OWA-Fuzzy Forecasting Model*," Accepted for presentation at the Third World Congress on Nature and Biologically Inspired Computing (NaBIC2011) to be held at the University of Salamanca, Spain during October 19-21, 2011 and for publication in the conference proceedings published by IEEE.

National Conference Papers:

1. **M. M. S. Beg**, A. Mahanta, R. Moona, "*Design of ADSP 2100-Based Multiprocessor Array*", Proc. Eighteenth National Systems Conference-94, Dyalbagh Educational Institute, Agra, Jan. 14-16, 1995, pp. 92-95 (bagged the **High Quality Presentation Award**).
2. **M. M. S. Beg**, O. Farooq, "*Simulator for Signal Processor ADSP 2100*", Proc. National Conference SDS-95, Anjuman Engineering College, Bhatkal, Nov. 28-30, 1995, pp. 198-201, (bagged the **High Quality Presentation Award**).
3. **M. M. S. Beg**, O. Farooq, "*Analog Computation Using Digital Computers*", Proc. XXXI Annual Convention of the Computer Society of India, Bangalore, Oct. 30-Nov.3, 1996, pp. 433-436.
4. M. Hasan, A. Hasan, **M. M. S. Beg**, "*PC-Based Text to Speech Converter*", Twentieth National Systems Conference-96, Thiruvanthapuram, Dec. 18-21, 1996.
5. **M. M. S. Beg**, M. F. Beg, M. I. Manzoor, S. A. Abbasi, "*Gate Array Design Using Vinyas-GX*", Proc. National Seminar on Recent Trends in the Design of Electronics and Other Engineering Systems (NSDES-97), organized by the Institution of Engineers at the Aligarh Muslim University, Nov. 29-30, 1997, pp. 213-217.
6. **M. M. S. Beg**, O. Farooq, "*Software Tool for Health Monitoring of Telephone Exchanges*", Proc. National Seminar on Recent Trends in the Design of Electronics and Other Engineering Systems (NSDES-97), organized by the Institution of Engineers at the Aligarh Muslim University, Nov. 29-30, 1997, pp. 303-306.
7. **M. M. S. Beg**, "*Realization of a PC-Based Telephone Answering and Recording Machine*", Proc. National Seminar on Recent Trends in the Design of Electronics and Other Engineering Systems (NSDES-97), organized by the Institution of Engineers at the Aligarh Muslim University, Nov. 29-30, 1997, pp. 307-312.
8. **M. M. S. Beg**, "*Assembly Language Embedded C-Code for Data Acquisition Systems*", National Symposium and Exposition on Modern Instrumentation Challenges and Visions, organized by the Institution of Electronics and Telecommunication Engineers (IETE) at the Department of Electronics Engineering, Aligarh Muslim University, Feb. 27-28, 1999.
9. **M. M. S. Beg**, C. P. Ravikumar, "*Distributed Resource Discovery from the Internet for e-Commerce Applications*", 43rd Annual Technical Convention (ATC-2000) of IETE, New Delhi, September 30 - October 1, 2000.
10. A. Srivastava, C. P. Ravikumar, **M. M. S. Beg**, "*Enhanced Similarity Measure for Client-Directory-Server Model*", Proc. Seventh National Conference on Communication (NCC-2001), IIT Kanpur, Jan. 26-28, 2001, pp.42-46.
11. **M. M. S. Beg**, "*Integrating the Notion of Hubs and Authorities into that of PageRank for the Web*", Proc. 25th National Systems Conference (NSC 2001), Coimbatore, Dec. 13-15, 2001, pp. 332-336.
12. **M. M. S. Beg**, "*Improved Meta-Search for the World Wide Web*", Proc. Eighth National Conference on Communication (NCC 2002), IIT Bombay, Jan. 25-27, 2002, pp. 135-139.

13. H. Farheen, **M. M. S. Beg**, "*Online Rank Aggregation*", National Conference on Modern Trends in Electronics and Communication Systems (MTECS-05), March 5-6, 2005, Aligarh, India, pp.174-179.
14. R. Ali, **M. M. S. Beg**, "*Vector Space Model for Web Search Evaluation*", National Conference on Modern Trends in Electronics and Communication Systems (MTECS-05), March 5-6, 2005, Aligarh, India, pp. 185-191.
15. S. A. Nahvi, H. Ashfaq, M. S. J. Asghar, **M. M. S. Beg**, "*Development of a Personal-Computer based Power-Electronic Controller for Induction Motors*", National Conference on Power Electronics and Drives (PEDC '06), March 7-9, 2006, Karaikudi, India, pp. 146-149.
16. R. Ali, **M. M. S. Beg**, M. Q. Rafiq, "*Effectiveness of an Objective Technique for Automatic Performance Evaluation of Web Search Systems*", National Conference on Intelligent Computing Models (NCICM-2008), Feb. 22-23, 2008, Salem, India.

INVITED TALKS:

1. "*Securing Web Search Engines from Spamming*", Workshop on Network Security & Applications (NSA – 2011), AMU Aligarh, February 5-6, 2011.
2. "*Web Mining and Searching*", Institute of Management Education, Ghaziabad, India, Feb. 4, 2009.
3. "*Web Mining*", Integral University, Lucknow, India, Jan. 18, 2009.
4. "*Precisiated Natural Language (PNL) and Computing with Words*", 5th National Conference on Advancement of Technologies, GLA Institute of Technology and Management, Mathura, India, January 24-25, 2009.
5. "*Optimization of Web Search Engines*", National Conference on Computational Optimization and Applications for Real World, Hindustan Institute of Management and Computer Studies, Mathura, India, November 8, 2008.
6. "*Mining and Searching the Web*", St. Stephen's College, Delhi, India, October 21, 2008.
7. "*Multi-Criteria Decision Making*", Integral University, Lucknow, India, March 29, 2008.
8. "*Measurement and Enhancement of Web Search Quality*", Department of Electrical and Computer Engineering, Kind Abdul Aziz University, Jeddah, K.S.A., September 17, 2007.
9. "*Precisiated Natural Language for Computation with Perceptions*", National Seminar on Artificial Intelligence (NSAI 2007), Hindustan College of Science and Technology, Mathura, India, April 28, 2007.
10. "*Web Searching*", Resource Person at the Subject Refresher Course for University and College Teachers on the theme of "*Recent Trends in Information Technology*", U.G.C. Academic Staff College, A. M. U., Aligarh, India, February 20, 2007.
11. "*PNL for a Questing Answering System*", British Telecommunications' Research Centre at Adastral Park, near Ipswich, UK, Nov. 22, 2006.
12. "*Information Extraction for a Q&A System*", Berkeley Initiative in Soft Computing (BISC), EECS Department, Computer Science Division, University of California at Berkeley, USA, July 28, 2006.
13. "*Precisiating Natural Language*", Berkeley Initiative in Soft Computing (BISC), EECS Department, Computer Science Division, University of California at Berkeley, USA, June 6, 2006.
14. "*Fuzzy Logic for Web Search Enhancement*", Department of Computing Science, University of Glasgow, Scotland, UK, Jan. 20, 2006.
15. "*Web Search Enhancement by Mining User Actions*", British Telecommunications' Research Centre at Adastral Park, near Ipswich, UK, Jan. 16, 2006.

16. “*Soft Computing for Enhancing Web Search*”, Berkeley Initiative in Soft Computing (BISC), EECS Department, Computer Science Division, University of California at Berkeley, USA, Dec. 6, 2005.
17. “*Discrete Mathematical Structures*”, A series of lectures at Shivdan Singh Institute of Technology and Management, Aligarh, India, September-October, 2005.
18. “*Distributed Systems*”, A series of lectures at Shivdan Singh Institute of Technology and Management, Aligarh, India, March-April, 2005.
19. “*Internet Technology*”, Resource Person at the Refresher Course for University and College Teachers on the theme of “*Algebra and its Applications*”, U.G.C. Academic Staff College, A. M. U., Aligarh, India, September 20, 2004.
20. “*Performance Evaluation of Web Search Engines*”, Pre-Conference Tutorial at the ACM Joint International Conference on Measurement and Modeling of Computer Systems (Sponsored by ACM SIGMETRICS and IFIP Working Group 7.3), Columbia University, New York, June 13, 2004.
21. “*Mining User Actions for Enhancing Web Search*”, Department of Computer Science, Rensselaer Polytechnic Institute, Troy, NY, USA, June 10, 2004.
22. “*Internet Resource Discovery*”, Plexus (pvt) Limited (a subsidiary of Pak Kuwait Investment Company), Karachi, Pakistan, April 19, 2004.
23. “*Web Mining*”, Department of Computer Engineering, Sir Syed University of Engineering and Technology, Karachi, Pakistan, April 17, 2004.
24. “*High Performance Mining of Association Rules*”, Department of Computer Engineering, Sir Syed University of Engineering and Technology, Karachi, Pakistan, April 15, 2004.
25. “*Internet Information Services*”, Short Term Training Program on “Computer Networking Using Windows 2000”, Jamia Millia Islamia, New Delhi, India, Dec. 16-27, 2002.
26. “*Fuzzy Logic in Measurement and Enhancement of Web Search Quality*”, Berkeley Initiative in Soft Computing (BISC), EECS Department, Computer Science Division, University of California at Berkeley, USA, Nov. 14, 2002.
27. “*Web Search Techniques*”, Department of Computer Science, Jamia Hamdard, New Delhi, India, Sept. 13, 2002.

AWARDS AND ACHIEVEMENTS:

1. Bagged the **Best Paper Award** at the World Congress on Lateral Computing (WCLC 2004), Dec. 17-19, Bangalore, India.
2. Twice bagged the **High Quality Presentation Awards** for presenting research papers in national conferences.
3. Bagged the **Best Paper Award** for the paper “*Neuro-Computing : An Overview*” presented at the Seminar organized by the Students’ Chapter of the Institution of Engineers (India) at A. M. U. Aligarh on Feb. 25, 1992.
4. Awarded **University Gold Medal** for standing **First** at B.Sc. (Engg.) Examinations (all branches combined).
5. Awarded **Maulana Tufail Medal** for standing **First** at B.Sc. (Engg.) Examinations in Electronics and Communication.
6. Awarded **Lang Medal** for standing **First** (all streams combined) at S.S.C. (Class X) Examinations.
7. Ranked **Second** in S.S.S.C. (Class XII) Examinations (all streams combined).

8. Qualified for the **Indian Government Scholarship** for a total duration of 3 years and 3 months under the **Quality Improvement Program (QIP)** to pursue doctoral studies at IIT Delhi, India, starting from July 1999.
9. Qualified All India Graduate Aptitude Test in Engineering (**GATE-92**) with **96.96 percentile** in the year 1992.
10. Obtained a **TOEFL** score of **613** and a **TWE** score of **5.5** in tests taken on Dec. 12, 1997.
11. Won **several prizes** in national level debates and essay writing competitions (both in English and Urdu) during the student life.
12. Completed *Hifz* (the memorization by heart of the *Holy Quran*) at a tender age of less than eight years.

PROFESSIONAL ACTIVITIES:

1. **Chaired** a session on *Data Mining* at the 6th International Conference on Computer Science and Informatics - a track at the 6th Joint Conference on Information Sciences (JCIS 2002), March 8-13, 2002, Durham, NC, USA.
2. **Reviewed** manuscripts for *IEEE Transaction on Knowledge and Data Engineering*, *IEEE Transaction on Neural Networks* and *IEEE Internet Computing*, besides many conferences of repute.
3. **Member, Technical Program Committee**, First World Congress on Lateral-Computing (WCLC 2004), December 17-19, 2004, Bangalore, India.
4. **Member, Technical Program Committee**, Second World Congress on Lateral-Computing (WCLC 2005), December 17-19, 2005, Bangalore, India.
5. **Member, Scientific Committee**, 5th WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing, Miami, Florida, November 1-3, 2006.
6. **Co-Chair, BISC-SIG-FLINT-Q&A** (Berkeley Initiative in Soft Computing Special Interest Group on Fuzzy Logic and the Internet, Question and Answering).
7. **Chaired** a session on *Knowledge Representation, Acquisition, and Processing + Related Issues* at the 2006 International Conference on Information and Knowledge Engineering (IKE'06) - a track at the 2006 World Congress on Computer Science, Computer Engineering, and Applied Computing (WORLDCOMP'06), June 26-29, 2006, Las Vegas, USA.
8. **Member, Scientific Committee**, 5th WSEAS International Conference on Circuits, Systems, Electronics, Control & Signal Processing, Dallas, Texas, USA, November 1-3, 2006.
9. **Member, International Advisory Board**, International Conference on Information and Communication Technology in Electrical Sciences (ICTES 2007), Chennai, India, Dec. 20-22, 2007.
10. **Member, International Advisory Committee**, International Conference on Human Computer Interaction, Indian Institute of Information Technology, Allahabad, India, January 20-23, 2009.
11. **Program Committee Member**, International Conference on Computer and Communications (ICCC-2010), MNIT Allahabad, India, 2010.

12. Guest Editor, CSI Communication's Special Issue on Fuzzy Computing, ISSN 0970-647X, volume 34, number 8, November 2010.

13. Program Committee Member, International Conference on Computer and Communications (ICCC-2011), MNIT Allahabad, India, 2010.

Ph.D. THESIS SUPERVISION:

1. Performance Evaluation of Web Search Systems (Awarded in 2010).
2. Image Retrieval Using Extended Fuzzy Logic (Ongoing).
3. Application of Sizing Estimation Techniques for Business Critical Software Project Management (Ongoing).
4. Investigation of Soft Computing Techniques for Time Series Analysis (Ongoing).

POSTGRADUATE DISSERTATIONS SUPERVISED:

1. Query Expansion Using Parallel Search and Learn Technique.
2. Development of a Personal Computer based Power Electronic Controller.
3. Performance of an Algorithm Based on Data-and-Document-Centric XML Documents.
4. Tree Based Algorithms for Association Rule Mining.
5. Fuzzy Search Engine

POSTGRADUATE PROJECTS SUPERVISED:

1. Online Rank Aggregation.
2. Finding the Interesting Rules First.
3. Implementation of Spell Checking Algorithm.
4. Design and Realization of an Interfacing System for a Personal Computer based Power Electronic Controller.

UNDERGRADUATE PROJECTS SUPERVISED:

1. Simulator for Signal Processor ADSP 2100.
2. Health Monitoring and Control of Telephone Exchanges.
3. Analog Computation Through Digital Computers.
4. PC - Based Text-to-Speech Converter.
5. PC - Based Telephone Answering and Recording Machine.
6. Design and Realization of PC - Based Power Electronic Controller.
7. A GUI Approach to Library Management Using Visual Basic.
8. Prospects of a Computer Maintenance Firm at Aligarh.
9. Touch - Screen Interactive Kiosk.
10. Source Based Delay Bounded Multicasting in Multimedia Networks.
11. FPGA Based Design and Implementation of a Calculator Chip.
12. Application of Artificial Neural Networks in

- (a) Author Recognition.
- (b) Medical Diagnosis.
- 13. Design and Implementation of PC - Based Remote switching of Electrical appliances via telephone lines.
- 14. PC - Based Furnace Temperature Control by Discontinuous Phase Controlled Switching.
- 15. Simulator for Analog Computation.
- 16. Design and Realization of Personal Computer Based Speed Controller of Master – Slave Induction Motor.
- 17. Design and Realization of Microcomputer Based Versatile Power Electronic Controller.
- 18. Entrepreneur Resource Planning for Corporate Sectors.
- 19. DOS Help Mate.
- 20. Enhanced Meta-Searching on the World Wide Web.
- 21. Text Tone Analysis
- 22. Intelligent Operating System Trouble Shooter (TuxGuru)
- 23. Prediction of Stability of Derived Constituents from DNA
- 24. DRUID – Semantic Search Utility
- 25. Implementation of 16-bit Error Detection and Correction Controller in Bluespec HDL
- 26. Truth Discovery with Multiple Conflicting Information Providers on the Web
- 27. Association Rule Mining using Neural Networks
- 28. Social Networking Web site
- 29. Smart Home Security System
- 30. Multi-Resource Management System

POSTGRADUATE COURSES TAUGHT:

Advance Computer Architectures, Parallel Semi-Numerical and Non-Numerical Algorithms, Web Mining and Searching, Operating Systems, Automata Theory, Compiler Design.

UNDERGRADUATE COURSES TAUGHT:

Algorithms and Data Structures, Discrete Mathematical Structures, Operating Systems, Computer Systems Design, Microelectronics, Logic Theory, Digital Electronics Systems, Information Technology, Distributed Systems, Artificial Intelligence, Data Mining, Microprocessors, Computer Organization.

RESPONSIBLE POSITIONS HELD IN THE DEPARTMENT:

- Have the distinction of being the very **first member of the teaching faculty** in the Department of Computer Engineering at AMU Aligarh.
- Bore the burden of establishing and managing the affairs of the Department of Computer Engineering, AMU Aligarh **all alone for a period of about 3 years.**
- Have been instrumental in procuring the instruments and subsequently **setting up the hardware lab.**

- Have also been negotiating, purchasing, installing and then maintaining the computer systems and their software in the **software lab** of the department.
- Purchased the books and **set up the seminar library** as well.
- It was only after other staff members have joined the department that the study leave was obtained to pursue the **Ph.D. program at I. I. T. Delhi in the QIP scheme**.
- Prepared and submitted the **IX Five Year Plan proposal** for the Department of Computer Engineering, AMU Aligarh **single-handedly**.
- **Tabulator** for M.Tech. program in the Department of Computer Engineering, AMU Aligarh for the first 3 years.
- **Assistant Superintendent** of Exams for the Dept. of Electronics Engg. Centre in 2004-2005 and 2005-2006.
- **Head** of the Department of Computer Engineering, Jamia Millia Islamia, New Delhi from February 11, 2007 to February 10, 2011.
- **Member** of the Academic Council, Jamia Millia Islamia, New Delhi from February 11, 2007 to February 10, 2011.
- **Member** of the Court, Jamia Millia Islamia, New Delhi from November 9, 2010 to February 10, 2011.

PARTICIPATION IN WORKSHOPS/TUTORIALS:

1. *Induction Training Programme for Teachers in Technical Education*, sponsored by AICTE and organized by Academic Staff College, A.M.U., Aligarh, June 19-July 8, 1995.
2. QIP short term course on *Web Design and Development*, organized by the Computer Services Center, IIT Delhi from Dec. 11-15, 2000.
3. R. Krishnapuram, “*Basics of Web Mining*,” A 4 hour tutorial conducted at the 7th International Conference on High Performance Computing (HiPC 2000), Bangalore, India, Dec. 17, 2000.
4. S. Chakrabarti, “*Weaving the Semantic Web: Mining Hypertext and Semistructured Databases*”, A 4 hour tutorial conducted at the 7th International Conference on High Performance Computing (HiPC 2000), Bangalore, India, Dec. 17, 2000.
5. QIP short term course on *Artificial Intelligence, Functional Programming and Programming in Prolog*, organized by the Instrumentation Design and Development Center, IIT Delhi from May 7-19, 2001.
6. QIP short term course on *High Performance Computing*, organized by the Computer Services Center, IIT Delhi from May 12-16, 2003.

PROFESSIONAL MEMBERSHIPS/AFFILIATIONS:

1. **Senior Member** of IEEE and its Computational Intelligence Society.
2. **Honorary Member** of World Federation on Lateral Computing.
3. **Member** of New York Academy of Sciences.
4. **Life Member** of Indian Society for Technical Education (ISTE).
5. **Life Member** of Institution of Electronics and Telecommunications Engineers (IETE).
6. **Life Member** of Computer Society of India (CSI).

7. Life Member of System Society of India (SSI).

REFEREES:

1. Prof. L. A. Zadeh, Department of Computer Science, University of California at Berkeley, CA 94720-1776, USA.
2. Prof. M. N. Doja, Department of Computer Engineering, J. M. I., New Delhi, India.
3. Prof. N. Ahmad, Department of Computer Engineering, A. M. U., Aligarh, India.
4. Prof. S. A. Abbasi, Department of Electrical Engineering, King Saud University, Riyadh, K.S.A.
5. Prof. A. Mahanta, Department of Electronics and Communication Engineering, I. I. T., Guwahati, India.

CURRENT AREAS OF RESEARCH INTERESTS:

Computer Architecture, Parallel and Distributed Computing, High Performance Data Mining, Web Mining and Searching, Fuzzy Logic and Systems, Genetic Algorithms, Question Answering Systems, Natural Language Processing.