

Dr. TANVIR AHMAD

Professor

Office Address:

Department of Computer Engineering,
Jamia Millia Islamia,
New Delhi – 110025.

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5, Friends Apartment,
24/84 Ghaffar Manzil,
New Delhi – 110025

tanvir.jmi@gmail.com (Personal)

Current positions held

- Professor since 26-11-2013 in the Department of Computer Engineering, Jamia Millia Islamia.
- Hony. Additional Director, FTK-Centre for Information Technology, for Website and MIS.

Area of Research

Text Mining, Graph Mining, Big Data Analytics, Natural Language Processing, Information Security

Previous positions held

- Worked as Head, Department of Computer Engineering from February, 2014 to February 2017.
- Worked as an Associate Professor in the Department of Computer Engineering, Jamia Millia Islamia from 17-09-2009 to 25-11-2013.
- Worked as Reader in the Department of Computer Engineering, Jamia Millia Islamia, from 17-9-2006 to 16-9-2009.
- Worked as a Lecturer in the Department of Computer Engineering, Jamia Millia Islamia, from 15-6-2004 to 16-9-2006.
- Worked as a Lecturer in University Polytechnic, Jamia Millia Islamia, from 14-2-2002 to 15-6-2004.

Total teaching experience: 20 Years

Classes taught:

M.Tech (Computer Engineering), B.Tech (Computer Engineering), B.E. (Computer Engineering), M.C.A., M.Sc (Computer Science), M.Sc (Industrial Maths with Computer Application), B.C.A., Diploma Engineering.

Theory Courses taught

- Data Structure
- Data Mining and Analytics
- Data Mining
- System Software
- Operating System
- System Analysis and Design
- Database Management System
- Object Oriented Programming
- Web Technologies

ACADEMIC QUALIFICATION

- Doctorate of Philosophy (Ph.D.) on the topic “Frequent and Sequential Pattern Mining and their Applications”, from Jamia Millia Islamia in 2013.
- M.Tech. (I.T.) from I.P. University, Delhi in 2006 with First Class with Distinction.
- B.E.(Computer Sc.) from Bangalore University with First Class.
- Intermediate of Science from Bhagalpur University with First Class with distinction in Physics, Maths and English.
- 10th From Bihar School Examination Board with First Class.

Ph.D. GUIDANCE

- Thesis awarded/submitted : 2
- Awarded to Mr. Abdul Rahman on the topic “Enhanced Image Identification Using Extended Fuzzy Logic”
 - Awarded to Mr. Lalit Mohan Goyal on the topic “Efficient Mining of Data in Distributed Databases”

Currently I am supervising 6 research scholars as Main supervisor and one as Co-supervisor in the field of Data Mining, Text Mining, Information Security and Big Data Analytics. I am also supervising 3 research scholars of Visvesvaraya Ph.D. Scheme for Electronics & IT.

PUBLICATIONS INDEXING

- | | | |
|--|---|---------------|
| Number of Citations | : | 110 (Approx.) |
| Number of papers indexed in SCOPUS | : | 20+ |
| Number of Papers indexed in Google scholar | : | 26+ |

PUBLICATIONS - INTERNATIONAL JOURNALS AND INTERNATIONAL CONFERENCES (SPRINGER, ELSEVIER, ACM and IEEE)

2017

38. Amreen Ahmad and **Tanvir Ahmad**, “Information Diffusion based Multi-Document Summarization”, in IPRABSP, Pattern Recognition Letters (PR-Letters), Elsevier. **Paper indexed in Science Citation Index (SCI), Scopus.** (To appear)
37. Lalit Goyal, M.M. Sufyan Beg and **Tanvir Ahmad**, “An Efficient Framework for Mining Association Rules in the Distributed Databases”, in The Computer Journal, Volume – 60, Issue – 7, July 2017, Impact factor : 0.711 <https://doi.org/10.1093/comjnl/bxx067>. **Paper indexed in Science Citation Index (SCI) Expanded , Scopus.**
36. Waseem Ahmed, M.M. Sufyan Beg and **Tanvir Ahmad**, “Attribute Reduction for Fuzzy Set-valued Information Systems” to be published in in 21st World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2017), Orlando, USA, from July 8-11, 2017.
35. Samar Wazir, M.M.Sufyan Beg, **Tanvir Ahmad**, “Mining the Frequent Itemsets for a Database with Certain and Uncertain Transactions” to be published in in 21st World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2017), Orlando, USA, from July 8-11, 2017.

2016

34. Adeel Shiraz Hashmi, **Tanvir Ahmad**, “Big Data Mining Techniques” in IJST 9(37) Pages: 1-5, ISSN: 0974-6846.
33. Adeel Shiraz Hashmi, **Tanvir Ahmad**, “Big Data Mining: Tools & Algorithms” in iJES 4(1) Pages: 36-40 (2016). **Paper indexed in DBLP.**
32. Samar Wazir, **Tanvir Ahmad** and M. M. Sufyan Beg, “Frequent Itemset Mining for a Combination of Certain and Uncertain Databases” in 6th World conference on Soft Computing, Berkeley, U.S.A., May 22nd – 25th, 2016, paper to be published as a Springer Verlag Edited book.
31. Prerna Agarwal, Rafiq Ahmad and **Tanvir Ahmad**, “Identification and ranking of key persons in a Social Networking Website using Hadoop & Big Data Analytics”, Published in ACM – International Conference Proceeding Series (ICPS), ISBN: 978-1-4503-4213-1. <http://dl.acm.org/citation.cfm?id=2979844&CFID=927836414&CFTOKEN=76159765>
30. Chandni Saxena, M.N.Doja, **Tanvir Ahmad**, “Neighborhood Topology to Discover Influential Nodes in a Complex Network” to be published in FICTA 2016 in , in International Conference on Proceedings of the 5th “International Conference on Frontiers in Intelligent Computing: Theory and Application” published by Springer, Volume: 515, pages: 323-332.

29. Gunjan Ansari, **Tanvir Ahmad**, M.N.Doja, "Review Ranking Method for Spam Recognition" in 2016 Ninth International Conference on Contemporary Computing (IC3-2016). Proceeding to be published in IEEE Explore in August 2016 and indexed in DBLP, Scopus.
28. Amreen Ahmad, **Tanvir Ahmad**, Harsh Vijay, "Shortest Path Algorithms for Social Network Strengths" to be published in FICTA 2016, in International Conference on Proceedings of the 5th "International Conference on Frontiers in Intelligent Computing: Theory and Application" published by Springer, Volume: 515, pages: 353-361.
27. **Tanvir Ahmad**, Rafeeq Ahmad, Sarah Masud and Farheen Nilofer, "Framework to Extract Context Vectors from Unstructured Data using Big Data Analytics" in 2016 Ninth International Conference on Contemporary Computing (IC3-2016). Proceeding to be published in IEEE Explore in August 2016 and indexed in DBLP, Scopus.
26. Shahzad Alam, Tanvir Ahmad, M. N. Doja, "A Novel Edge based Chaotic Steganography Method using Neural Network", in International Conference on Proceedings of the 5th "International Conference on Frontiers in Intelligent Computing: Theory and Application" published by Springer, Volume: 516, pages: 467-475.
25. Nazia Tabassum and **Tanvir Ahmad**, "A Theoretical Study on Classifier Ensemble Methods and its Applications", in IEEE - INDIACom - 2016; International Conference on Computing for Sustainable Global Development, 2016. Pages: 374-378.
<http://ieeexplore.ieee.org/document/7724290/>

2015

24. Lalit Mohan Goyal, M. M. Sufyan Beg and **Tanvir Ahmad**, "A Novel Pruning Approach for Association Rule Mining", in BVICAM's International Journal of Information Technology, BIJIT – 2015; January - June, 2015; Vol. 7 No. 1; ISSN 0973 – 5658. Pages: 827-834.
<http://bvicam.ac.in/bijit/downloads/pdf/issue13/08.pdf>
23. Sharan Agarwal, Shivam Rana and **Tanvir Ahmad**, "Random Forest for Real Forest", in IC3T, 2015, Proceedings of the Second International Conference on Computer and Communication Technologies, Volume 381, Advances in Intelligent Systems and Computing(AISC), Springer, Pages 301-309. http://link.springer.com/chapter/10.1007%2F978-81-322-2526-3_32. **Paper indexed in Scopus.**
22. Pankaj Kumar Sharma, Hammad Haleem, **Tanvir Ahmad**, "Improving Classification by Outlier Detection and Removal", in Advances in Intelligent Systems and Computing, Volume 338, 2015, Pages 621-628, Springer International Publishing, Switzerland.
http://link.springer.com/chapter/10.1007%2F978-3-319-13731-5_67#page-1. **Paper indexed in Scopus.**

21. Abdul Rahman, **Tanvir Ahmad**, M. M. Sufyan Beg, "Ranking of Fuzzy Similar Faces using Relevance Matrix and Aggregation Operators", in The International Conference on Soft Computing and Software Engineering (SCSE 2015), University of California, Berkeley, Procedia Computer Science, Vol. 62, pp.: 84-91, Elsevier. ISSN No.: 1877-0509. **Paper indexed in Scopus & DBLP.**
<http://www.sciencedirect.com/science/article/pii/S1877050915025521>
20. Waseem Ahmed, **Tanvir Ahmad**, M.M. Sufyan Beg, "Communication between Information Systems using Ordered Weighted Averaging" in The 9th International Conference on Advanced Computing and Communication Technologies, in Advances in Intelligent Systems and Computing, Springer Science+Business Media Singapore Pte Ltd., Singapore.
http://link.springer.com/chapter/10.1007/978-981-10-1023-1_39
19. Antriksh Agarwal, Avishkar Gupta and **Tanvir Ahmad**, "A comparative study of Linear learning methods in Click-Through Rate Prediction", in International Conference on Soft Computing Techniques and Implementations, Proceeding published by IEEE. [Link](#)
18. Arvind Kumar, **Tanvir Ahmad**, "Comparative Study of Web Page Ranking Algorithms", in International conference on Recent Trends in Science, Technology, Management & Social Development, (RTSTMSD-15), Malaysia, 22-23 December, 2015, Pages : 8 -13

2014

17. Musheer Ahmad and **Tanvir Ahmad**, "Securing Multimedia Colour Imagery using Multiple High Dimensional Chaos-based Hybrid Keys", International Journal of Communication Networks and Distributed Systems (IJCNDS), Inderscience Publication, Switzerland, Europe, Vol. 12, No. 1, 2014. Pages: 113-128. **Paper indexed in Scopus & DBLP.**
<http://www.inderscience.com/offer.php?id=57991>
16. Haseena Rahmath P. and **Tanvir Ahmad**, "Fuzzy based Sentiment Analysis of Online Product Reviews using Machine Learning Techniques", in International Journal of Computer Application (IJCA), U.S.A. Volume: 99, No.: 17. ISSN NO: 0975-8887, 2014. Pages: 9-16.
15. **Tanvir Ahmad**, Halima Akhtar and Akshay Chopra, Mohd. Waris Akhtar, "Satire Detection from Web Documents using Machine Learning Techniques", in 2014 International Conference on Soft Computing and Machine Learning (ISCMI 2014), Conference Publishing Services, IEEE Computer Society, 2014. Pages 102-105. **Paper indexed in Scopus.**
<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?reload=true&arnumber=7079363> [Link](#)
14. Lakshay Sahni, Anubhav Sehgal, Shaivi Kochar, Faiyaz Ahmad, **Tanvir Ahmad**, "A Novel Approach to find Semantic Similarity Measure between Words", In 2014 International Symposium on Computational and Business Intelligence (ISCBI 14) to be published by Conference Publishing Services, IEEE Computer Society, U.S.A. Pages: 89-92. **Paper indexed in Scopus.** [Link](#)

2013

13. **Tanvir Ahmad**, “A Novel Feature Cloud Visualization for Depiction of Product Features Extracted from Customer Reviews”, in Advances in Computer Science, Iran. Volume: 2, Issue-4, No: 5, ISSN NO: 2322-5117, 2013. Pages: 96-102.
12. **Tanvir Ahmad**, “Clustering Technique for Feature Segregation in Opinion Analysis”, in International Journal of Computer Application, U.S.A. Volume: 76, No.: 17. ISSN NO: 0975-8887, 2013. Pages 43-49.
11. **Tanvir Ahmad** and Mohammad Najmud Doja, “Opinion Mining using Frequent Pattern Growth Method from Unstructured Text”, in 2013 International Symposium on Computational and Business Intelligence (ISCBI 13) published by Conference Publishing Services, IEEE Computer Society, U.S.A., pp. 92 – 95. **Paper indexed in IEEExplore and Scopus** at <http://ieeexplore.ieee.org/xpl/tocresult.jsp?isnumber=6724301>.

2012

10. **Tanvir Ahmad** and Mohammad Najmud Doja “Rule Based System for Enhancing Recall for Feature Mining from Short Sentences in Customer Review Documents”, in International Journal of Computer Science and Engineering (IJCSSE) Volume : 4, Number : 6, Year – 2012. Pages: 1211-1219.
9. Musheer Ahmad, **Tanvir Ahmad** and Chirag Gupta, “Multiple 3D Chaotic Systems Based Approach for Visual Multimedia Content Protection”, Communications in Computer and Information Science, 1, Volume 270, Global Trends in Information Systems and Software Applications, Pages 37-46, 2012, Springer-Verlag Berlin Heidelberg 2012. http://link.springer.com/chapter/10.1007%2F978-3-642-29216-3_6 **Paper indexed in Scopus.**
8. Musheer Ahmad and **Tanvir Ahmad**, “A Framework to Protect Patient Digital Medical Imagery for Secure Telediagnosis” in Procedia Engineering 38 (2012) published by Elsevier Ltd, Pages: 1055 – 1066 at <http://www.sciencedirect.com/science/article/pii/S1877705812020462>. **Paper indexed in Scopus.**

2011

7. **Tanvir Ahmad** and Mohammad Najmud Doja , “Mining Sequential Features and Opinion Words in User Generated Contents” in International Conference in Artificial Intelligence(IICAI 2011) , pp. 1113-1124. **Paper indexed in Scopus & DBLP.**
<http://www.informatik.uni-trier.de/~lev/pers/hd/a/Ahmad:Tanvir.html>

2010

6. Muhammad Abulaish, **Tanvir Ahmad**, Jahiruddin, Mohammad Najmud Doja, “Opinion-Based Imprecise Query Answering”, PAKDD 2010, Part – II, Lecture Notes in Artificial Intelligence vol. 6119, pp. 238-248, Springer-Verlag Berlin Heidelberg 2010.
http://link.springer.com/chapter/10.1007%2F978-3-642-13672-6_24. **Paper indexed in Scopus & DBLP.**

2009

5. Muhammad Abulaish, Jahiruddin, Mohammad Najmud Doja and **Tanvir Ahmad**, “Feature and Opinion Mining for Customer Review Summarization”, PReMI 2009, Lecture Notes in Computer Science, vol. 5909, pp. 219–224, Springer-Verlag Berlin Heidelberg 2009.
http://link.springer.com/chapter/10.1007%2F978-3-642-11164-8_35. **Paper indexed in Scopus & DBLP.**
4. F.A.Mazaharbhuia, Muhammad Abulaish, Anjana Kakoti and **Tanvir Ahmad**, “Mining Temporal Rules from Spatial Database”, PReMI 2009, Lecture Notes in Computer Science vol. 5909, pp. 219–224, Springer-Verlag Berlin Heidelberg 2009. **Paper indexed in Scopus & DBLP.** [Link](#)

National Conferences

3. Mohammad Fahim, **Tanvir Ahmad**, “DNA Computing – Evolution of a New Computing Framework”, National conference on energy, communication and computer systems, NC-ECC Feb 2-4, 2006, held at MAIT, New Delhi.
2. **Tanvir Ahmad**, Udayan Ghosh, “Processing of Imprecise Queries in a Fuzzy Database” , National Conference on Information Technology & its Application, NC-ITA Apr 13-14, 2006 held at Bhartiya Vidyapeeth College of Engineering, New Delhi.
1. **Tanvir Ahmad**, Udayan Ghosh, “Determination of Membership Function for Querying a Fuzzy Database” , National Conference in Emerging Principles and Practices of Computer Science and Information Technology, (EPPCSIT’06) Aug, 18-19, 2006 held at Guru Nanak Dev Engineering College, Ludhiana, Punjab.

LIST OF MAJOR UNDERGRADUATE PROJECTS GUIDED IN LAST TWO YEARS

1. A Secured Mobile Application to perform various Interactive Tasks.
2. Gender Classification for Blog authors.
3. Optical Character Reader for Handwritten Hindi text.
3. Content based Spam Analysis using Incremental Data Mining Technique.
4. Large Scale Hierarchical Text Classification using Hadoop: MapReduce.
5. Identification of Panoramic Parts using Template Matching and Image Stitching Approach.
6. An Innovative Approach to find Semantic Similarity Measure between Words.
7. Satire Detection in Web Documents using Machine Learning Methods.
8. Identifying learners and visualizing their engagement patterns with MOOCs.

9. Identification of key persons in a social networking website.
10. Segregation of subjective documents from blog space to extract knowledge using machine learning methods.
11. Mood Based classification of Music by Analyzing Lyrical Data using Text Mining Techniques.
12. Stylometrics and Authorship Analysis: Mining Write-Print for Authorship Attribution.
13. Application of Data Mining to build Recommendation System for Hotel Review.
14. Identifying learners and visualizing their engagement patterns with MOOCs.
15. A Novel Approach to find Semantic Similarity Measure between Words.
16. Modelling of Gene Regulatory Networks using Microarray Data.
17. Topic Modelling using Big Data Analytics.
18. Gated Feedback DNN for Generating Query able Visual Data Description.
19. Satellite Image Classification using Fuzzy Logic.
20. Author ranking Framework based on paper publications.

PROPOSALS AWARDED

1. Submitted proposals in the first phase to DeitY under Visvesvaraya Ph.D. Scheme for Electronics & IT for the Academic year 2015-2016 and got 4 seats.
2. Submitted proposals in the second phase to DeitY under Visvesvaraya Ph.D. Scheme for Electronics & IT for the Academic year 2015- 2016 and got 6 seats.

CONTRIBUTION TO ADMINISTRATION AT J.M.I.

1. Head, Dept. of Computer Engineering, J.M.I. from Feb 2014 to Feb, 2017.
2. Member of Board of Management of FTK-Centre for Information Technology, J.M.I.
3. Member, Faculty Committee, Faculty of Engineering & Technology, Jamia Millia Islamia.
4. Member, Board of Studies of Department of Computer Engineering, Jamia Millia Islamia.
5. Chairman, Departmental Research Committee from Feb, 2014 to Feb, 2017.
6. President of Subject Association from Feb, 2014 to Feb,2017.
7. Observer for entrance exam of Jamia Millia Islamia for Kendriya Vidyalaya, Patna centre in 2016.
8. Chairman, Syllabus Committee for drafting the course structure of M.Tech. in Computer Engineering.
9. Superintendent of Examination for B.Tech. entrance exam at Kendriya Vidyalaya, J.N.U. old campus in 2012.
10. Superintendent of Examination for B.E. entrance exam in 2012 at Jamia Millia Islamia.
11. Assistant Superintendent of B.Tech entrance exam in 2008, 2009, 2010, 2011.
12. Teacher placement co-ordinator for Department of Computer Engineering from last 8 years.
13. Partnership with Mixorg & Mobile Harvest for internship for the students of Computer Engineering in the campus of the university.
14. Tabulator of B.Tech courses in 2010, 2011 and 2012.
15. Branch Counsellor of CSI – JMI Student Chapter which organises the annual tech festival “ALGORHYTHM”.
16. Member Sub-purchase committee of Department of Computer Engineering.
17. Member, Jamia Teachers Association.

INTERNATIONAL TECHNICAL PROGRAM COMMITTEE MEMBER/ REVIEWER

- Reviewer for Springer Journal for Neural Computing and Application.
- Technical Program Committee member of SPIN 17, IEEE sponsored Conference on Signal Processing and Integrated Network, 2017.
- Technical Program Committee member of SPIN 14, IEEE sponsored Conference on Signal Processing and Integrated Network, 20 -21 Feb, 2014.
- Technical Program Committee member of 2014 IEEE sponsored International Conference on Soft Computing and Machine Intelligence, New Delhi (ISCFI 2014).
- Technical Program Committee member of 2014 2nd International Symposium on Computational and Business Intelligence (ISCFI 14).
- Reviewer of International Conference on Electronic Design, Computer Networks & Automated Verification (EDCAV 15) by N.I.T. Shillong.
- Technical Program Committee member of SPIN 15, IEEE sponsored Conference on Signal Processing and Integrated Network, 2015.
- Technical Program Committee member of 12TH IEEE India International Conference INDICON 2015.
- Technical Program Committee member of SPIN 16, IEEE sponsored Conference on Signal Processing and Integrated Network, 2016.
- Technical Program Committee member of 2016 3rd Intl. Conference on Soft Computing & Machine Intelligence (ISCFI 2016).

MEMBERS OF BODIES OUTSIDE J.M.I.

1. Member of Advisory Group for Digital Locker system, National e-Governance Division, Ministry of I.T. and Communication, Govt. of India.
2. Member of Expert Committee of National Board of Accreditation (NBA).
3. Member of Expert Committee for affiliation to colleges for M.Tech., B.Tech. and MCA under G.G.S.I.P. University since 2010.

PERSONAL INFORMATION

Father Name : Mr. Abdul Wasay, Retired Professor, Bhagalpur University.

Mother Name: Dr. Asfa Wasay, Retired Professor, Bhagalpur University.

Date of Birth: 04-06-1969.

Permanent Address: c/o. Prof. Abdul Wasay, Asanandpur, Bhagalpur, 812002, Bihar.