

## **Dr. TANVIR AHMAD**

### **Professor**

#### **OFFICE ADDRESS :**

Department of Computer Engineering,  
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#### **RESIDENCE ADDRESS :**

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24/84 Ghaffar Manzil,  
New Delhi – 110025

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#### **CURRENT POSITIONS HELD**

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

#### **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 Board of Studies, Interdisciplinary Centre of Artificial Intelligence, A.M.U., Aligarh.
3. Member of Board of Studies, Chandigarh University, Mohali, Chandigarh.
4. Member of Board of Studies, School of Extension & Development Studies, IGNOU.
5. Member of Departmental Research Committee, IGTUW, New Delhi.

#### **MEMBERS OF BODIES IN J.M.I.**

1. Member of Board of Management, Centre of Management Science.
2. Member of Board of Studies, Dept. of Electronics & Communication Engineering.
3. Member of Board of Studies, Dept. of Applied Science & Humanities.
4. Member of Board of Studies, University Polytechnic.
5. Member of Board of Management of FTK-Centre for Information Technology.
6. Member of Department Research Committee (DRC), Dept. of Mechanical Engineering.

#### **PREVIOUS POSITIONS HELD**

- Worked as Head, Department of Computer Engineering from February, 2014 to February 2017 and from 1<sup>st</sup> August 2018 to 31<sup>st</sup> July 2021. ( 6 Years)
- Worked as an Associate Professor in the Department of Computer Engineering from 17-09-2009 to 25-11-2013.
- Worked as a Reader in the Department of Computer Engineering from 17-9-2006 to 16-9-2009.
- Worked as a Lecturer in the Department of Computer Engineering from 15-6-2004 to 16-9-2006.
- Worked as a Lecturer in University Polytechnic, J.M.I., from 14-2-2002 to 15-6-2004.

## **AREA OF RESEARCH**

Data Mining, Text Mining, Graph Mining, Natural Language Processing, Biomedical Data Mining

**Total teaching experience: 25 + Years**

### **Classes taught:**

Ph.D. (Course work), M.Tech. , B.Tech., M.C.A., M.Sc. (Computer Science), B.C.A., Diploma Engineering.

### **Theory Courses taught**

Data Analytics, Data Mining, Data Structure, Soft Computing, System Software, Operating System, 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.
- 10<sup>th</sup> From Bihar School Examination Board with First Class.

## **Ph.D. GUIDANCE**

Thesis awarded/submitted : **15**

- Awarded to Dr. Abdul Rahman on the topic “Enhanced Image Identification Using Extended Fuzzy Logic”
- Awarded to Dr. Lalit Mohan Goyal on the topic “Efficient Mining of Data in Distributed Databases”
- Awarded to Dr. Wazih Ahmad on the topic “Soft Computing in Intelligent Information Retrieval Systems”
- Awarded to Dr. Waseem Ahmad on the topic “Intercommunication amongst various information systems applying Fuzzy Rough Sets”
- Awarded to Dr. Adeel Shiraz on the topic “Big Data Analytics – Tools and Techniques”
- Awarded to Dr. Chandni Saxena on the topic “A Data Mining Framework for Ranking of Nodes in Complex Networks”
- Awarded to Dr. Samar Wazir on the topic “Performance Analysis, Improvement and Optimization of Techniques used in Association Rule Mining”
- Awarded to Dr. Amreen Ahmad on the topic of Trust Network based Recommendation System”.

- Awarded to Dr. Nazia Tabassum on the topic of “Iterative Framework for Reciprocal Recommendation Systems”.
- Awarded to Dr. Gunjan Ansari on the topic “Improvised Sentiment Analysis and Spam detection using various Learning algorithm”
- Awarded to Dr. Rafeeq Ahmad on the topic “Text Mining using Big Data Analytics – A Fuzzy Approach”
- Awarded to Dr. Shahzad Alam on the topic “Investigation of various Information Hiding Techniques”
- Awarded to Dr. Ishleen Kaur on the topic “Survival Prediction in Cancer Using Effective Data Mining Techniques”
- Awarded to Dr. Faiyaz Ahmad on the topic “Image Mining Techniques for Information Retrieval”
- Awarded to Dr. M. Zeeshan Ansari on the topic “Analysis and Design of Mixed Lingual Information Extraction Models and Methods”

### **ONGOING RESEARCH**

Mr. Taha Owais	An Analytical Approach to eServices for eGovernment
Ms. Umme Aiman	Applications of Machine Learning and Deep Learning
Ms. Sielvie Sharma	Sub-event Detection in Online Social Media using Deep Learning Techniques
Mr. Faiz Akram	An investigation into Applications and Recommendations System during Software Requirement Elicitation
Mr. Rajiv Kumar Nath	Content Based Recommendation Systems using Computational Intelligence
Ms. Tanya Liaquat	Application of Machine Learning in the field of Healthcare
Ms. Samta Rani	A Framework for Medical Diagnosis using Machine Learning
Mr. Mohd. Danish	Rating Based Recommender System using User Textual Reviews
Ms. Yusra	A Deep Learning Architecture for Sentiment classification
Ms. Suman Raj	Model for Predicting cardiac arrest using Artificial Intelligence

### **PUBLICATIONS INDEXING**

Number of papers indexed in SCOPUS	:	80+
Number of Papers indexed in Google scholar	:	85+

### **LINKS TO INDEXING**

DBLP	:	<a href="https://dblp.org/pers/a/Ahmad:Tanvir.html">https://dblp.org/pers/a/Ahmad:Tanvir.html</a>
GOOGLE SCHOLAR	:	<a href="https://scholar.google.co.in/citations?user=y7YNRzoAAAAJ">https://scholar.google.co.in/citations?user=y7YNRzoAAAAJ</a>
SCOPUS	:	<a href="https://www.scopus.com/authid/detail.uri?authorId=35408601800">https://www.scopus.com/authid/detail.uri?authorId=35408601800</a>

### **PATENTS**

1. Rajiv Kumar Nath, **Tanvir Ahmad** et. al., “*Items Selecting Recommender System Using AI- Based and Deep Learning Programming*”. Australian Patent Number – 2021101819. Awarded.
2. Antriksh Agarwal and **Tanvir Ahmad**, “*Automated Attendance Monitoring and Activity Logging for Laboratory*”. Indian patent Number – 201811031238. Published on 28-02-2020.

#### **PUBLICATIONS - INTERNATIONAL JOURNALS (SCI / SCI-E)**

- Amreen Ahmad, **Tanvir Ahmad**, Musheer Ahmad, Ammar Muthanna, Brij Gupta, A.Abd El-Latif Ahmed, “*Critical Edges in Air Route Network using Modified Weighted Sum Method and Grey Relational Analysis*”, in **IEEE Transaction on Intelligent Transportation Systems**. Paper indexed in SCI-E, Scopus. Impact factor: 9.55. <https://ieeexplore.ieee.org/document/9896202>
- Amreen Ahmad, **Tanvir Ahmad**, Musheer Ahmad et.all., “*A complex network-based approach for security and governance in the smart green city*”, **Expert System with Application**, Paper indexed in Science Citation Index (SCI), Scopus. Impact factor: 9.6. <https://www.sciencedirect.com/science/article/abs/pii/S0957417422021121>
- Tanya Liaquat, **Tanvir Ahmad**, “*A machine learning strategy with clustering under sampling of majority instances for predicting Drug Target Interactions*” in **Molecular Informatics, Wiley**, Paper indexed in Science Citation Index (SCI), Scopus. Impact factor: 3.81. <https://onlinelibrary.wiley.com/doi/abs/10.1002/minf.202200102>
- Ishleen Kaur, M.N. Doja, **Tanvir Ahmad**, “*Data Mining and Machine Learning in Cancer Survival Research: An Overview and Future Recommendations*”, **Journal of Biomedical Informatics, Elsevier, Vol. 128, 2022, 104026**. Paper indexed in Science Citation Index (SCI), Scopus. Impact factor: 6.31. <https://www.sciencedirect.com/science/article/abs/pii/S1532046422000429>
- Mohammad Asim, Adnan Rashid, **Tanvir Ahmad**, “*Scour modeling using deep neural networks based on hyperparameter optimization*”, **ICT Express, Elsevier, Vol.7 Issue – 4, 2021**. Paper indexed in SCI-E, Scopus, Impact factor: 4.31 <https://doi.org/10.1016/j.ict.2021.09.012>
- Shahzad Alam, **Tanvir Ahmad**, M.N. Doja, Om Pal, “*Dual secure robust watermarking scheme based on hybrid optimization algorithm for image security*”, **Personal and Ubiquitous Computing, Springer,2021**. Paper indexed in SCI-E, Impact factor: 3.0 <https://doi.org/10.1007/s00779-021-01597-2>
- Ishleen Kaur, M.N. Doja and **Tanvir Ahmad**, “*Time-Range Based Sequential Mining for Survival Prediction in Prostate Cancer*”, **Journal of Biomedical Informatics, Elsevier, Vol.110, 2021, 103550**. Paper indexed in Science Citation Index (SCI), Scopus. Impact factor: 6.31 <https://www.sciencedirect.com/science/article/pii/S1532046420301787?dgcid=author>
- Ishleen Kaur, M. N. Doja, **Tanvir Ahmad**, Musheer Ahmad, Amir Hussain, Ahmed Nadeem, Ahmed A. Abd El-Latif, “*An Integrated Approach for Cancer Survival Prediction Using Data Mining Techniques*”, **Computational Intelligence and Neuroscience, Hindawi, vol. 2021, Article ID 6342226, 2021**. Paper indexed in Science Citation Index (SCI), Scopus. Impact factor: 3.63

- M.N. Doja, Ishleen Kaur, **Tanvir Ahmad**, “Current State of the Art for Survival Prediction in Cancer Using Data Mining Techniques”, **Current Bioinformatics**, **15: 174, Bentham Science. 2020**. Paper indexed in Science Citation Index (SCI-E), Scopus. Impact factor: 3.54.
- Rafeeq Ahmad, **Tanvir Ahmad** et.all. “Fuzzy Semantic Classification of Multi-Domain E-Learning Concept” in **Mobile Networks and Application, Springer, 2021**. Paper indexed in Science Citation Index (SCI), Scopus. Impact factor: 3.42 <https://doi.org/10.1007/s11036-021-01776-8>.
- Chandni Saxena, M.N. Doja and **Tanvir Ahmad**, “Entropy based flow transfer for influence dissemination in networks” **Physica A: Statistical Mechanics and its Applications, Volume 555, October 2020, 124630**. Paper indexed in Science Citation Index (SCI), Scopus. Impact factor: 2.92. <https://doi.org/10.1016/j.physa.2020.124630>.
- Amreen Ahmad, **Tanvir Ahmad** and Abhishek Bhatt, “HWSMCB: A community-based hybrid approach for identifying influential nodes in the social network”, **Physica A: Statistical Mechanics and its Applications 545, 2020, 12359**. Paper indexed in Science Citation Index (SCI), Scopus. Impact factor: 3.26. <https://doi.org/10.1016/j.physa.2019.123590>
- M.N. Doja, Ishleen Kaur and **Tanvir Ahmad**, “Age-specific survival in prostate cancer using machine learning”, **Data Technologies and Applications, Emerald Publishing Limited, Volume: 54 Issue-2, 2020**. Paper indexed in Social Sciences Citation Index (S-SCI), SCI-E & Scopus. Impact factor: 1.71. <https://doi.org/10.1108/DTA-10-2019-0189>
- Gunjan Ansari, **Tanvir Ahmad**, MN Doja, “Hybrid Filter–Wrapper Feature Selection Method for Sentiment Classification”, **Arabian Journal for Science and Engineering, 44 (11), Pages: 9191-9208, 2020**. Paper indexed in SCI-E & Scopus. Impact Factor: 2.33 <https://doi.org/10.1007/s13369-019-04064-6>
- Vinay Thakur, M.N.Doja, Yogesh K. Dwivedi, **Tanvir Ahmad**, Ganesh Khadanga, “Land records on Blockchain for implementation of Land Titling in India”, in **International Journal of Information Management, Elsevier, 2020**. Paper indexed in S-SCI & Scopus, Impact Factor: 18.95 <https://www.sciencedirect.com/science/article/pii/S0268401219303329>
- Ishleen Kaur, M.N.Doja, **Tanvir Ahmad**, “Current State of art for Survival Prediction in Cancer using Data Mining Techniques”, in **Current Bioinformatics, Bentham Science, Volume 15 , Issue 3 , 2020, Page: 174 – 186**. Impact Factor: 4.85. Paper indexed in SCI-E & Scopus. <http://dx.doi.org/10.2174/1574893614666190902152142>
- Adeel S. Hashmi and **Tanvir Ahmad**, “GP-ELM-RNN: Garson Pruned Extreme Learning Machine-based Replicator Neural Network for anomaly detection”, **Journal of King Saud University – Computer and Information Sciences, Elsevier. ISSN: 1319-1578, 2019**. Impact Factor: 8.839. Paper indexed in SCI & Scopus. <https://www.sciencedirect.com/science/article/pii/S1319157819306809> .
- Chandni Saxena, M.N.Doja, **Tanvir Ahmad**, “Group based Centrality for Immunization of Complex Networks" in **Physica A: Statistical Mechanics and its Applications, Elsevier, Volume 508**.

**ISSN: 0378-4371, 2019.** Impact Factor: 2.92. Paper indexed in Science Citation Index (SCI), Scopus. <https://www.sciencedirect.com/science/article/pii/S0378437118306368>.

- Amreen Ahmad, **Tanvir Ahmad**, “A Game Theory Approach for Multi-document Summarization” in **Arabian Journal of Science and Engineering, published by Springer, ISSN: 2191-4281. Volume 44(4). Pages: 3655-3667, 2019.** Impact Factor: 1.71. Paper indexed in SCI-E & Scopus. <https://link.springer.com/article/10.1007%2Fs13369-018-3619-y>
- Md. Wazih Ahmad, M.N.Doja and **Tanvir Ahmad**, “Enumerative feature subset based ranking system for learning to rank in presence of implicit user feedback” in **Journal of King Saud University – Computer and Information Sciences, Elsevier, 2019.** Paper indexed in SCI & Scopus, Impact Factor: 8.839. <http://authors.elsevier.com/sd/article/S1319157817302847>
- Lalit Goyal, M.M. Sufyan Beg and **Tanvir Ahmad**, “An Efficient Framework for Mining Association Rules in the Distributed Databases”, in **The Computer Journal, Oxford, Volume – 61, Issue – 5, July 2017, Pages: 645-657, 2019.** Paper indexed in Science Citation Index (SCI-E), Scopus, Impact factor : 1.5. <https://doi.org/10.1093/comjnl/bxx067>

#### **PUBLICATIONS - INTERNATIONAL JOURNALS (SCOPUS)**

- Samar Wazir, M.M.Sufyan Beg, and **Tanvir Ahmad**, “A Review on Frequent Itemsets Generation Techniques and Their Comparative Analysis Using FIMAK”, **SN Computer Science, 3(1), 1-11, Springer, 2022.** Paper indexed in Scopus.
- Shahzad Alam, **Tanvir Ahmad** and M.N. Doja, “A lossless digital watermarking scheme based on a new 3D-hyper chaotic map”, **International Journal of Electronic Business, Vol.-16, No.-1, Inderscience, 2021.** Paper indexed in Scopus.
- Nazia Tabassum, **Tanvir Ahmad**, “Iterative framework and privacy preservation in reciprocal recommendation” in **Recent Patents in Engineering, Vol. 15, Issue – 4, Pages 2021.** Paper indexed in Scopus. <https://www.eurekaselect.com/184653/article>
- Amreen Ahmad, **Tanvir Ahmad**, Ishita Tripathi, “Identifying Attack Models for Securing Cluster-based Recommendation System” in **Recent Patents on Engineering, Vol. 14 Issue – 3, Pages 324 - 338, Bentham Science, 2020.** Paper indexed in Scopus. <https://www.eurekaselect.com/180685/article>
- Rafeeq Ahmed, Pradeep Kumar Singh and **Tanvir Ahmad**, “Novel Semantic Relatedness Computation for Multi-Domain Unstructured Data”, **EAI Endorsed Transactions on Energy Web, June , 2020.** Paper indexed in Scopus. <http://dx.doi.org/10.4108/eai.13-7-2018.165503>
- Adeel S. Hashmi, and **Tanvir Ahmad**, “FAAD: A Self-Optimizing Algorithm for Anomaly Detection”, **The International Arab Journal of Information Technology (IJAIT), March 2020, 17(2), 272-280.** ISSN: 2309-4524. Paper indexed in ESCI & Scopus.

<https://iajit.org/PDF/Vol%2017,%20No.%202/16909.pdf>

- Waseem Ahmed, M.M.S. Beg, **Tanvir Ahmad**, "A Fuzzy Rough Set based Fitting Model for Fuzzy Set-Valued Information System", in **International Journal of Information Technology, Springer, Pages 1-10, ISSN 2511-2104**. <https://link.springer.com/article/10.1007/s41870-019-00304-y>
- Gunjan Ansari, **Tanvir Ahmad**, M.N Doja, "Ensemble of Feature Ranking Methods Using Hesitant Fuzzy Sets for Sentiment Classification", **International Journal of Machine Learning and Computing, Vol. 9(5): 599-608 ISSN: 2010-3700**. Paper indexed in Scopus. <http://www.ijmlc.org/vol9/846-L0290.pdf>
- Gunjan Ansari, **Tanvir Ahmad**, M.N.Doja, "Spam review classification using ensemble of global and local feature selectors", in **Bulgarian Academy of Sciences, Cybernetics and Information Technology, Volume: 18, No.: 4**, ISSN: 1311-9702; Online ISSN: 1314-4081. ISSN: 1311-9702. Paper indexed in Scopus, Web of Science-Emerging Science Citation Index (ESCI). [http://www.cit.iit.bas.bg/CIT\\_2018/v-18-4/10341-Volume18\\_Issue\\_4-03\\_paper.pdf](http://www.cit.iit.bas.bg/CIT_2018/v-18-4/10341-Volume18_Issue_4-03_paper.pdf)
- Samar Wazir, M.M.Sufyan Beg, **Tanvir Ahmad**, "Mining the Frequent Itemsets for a Database with Certain and Uncertain Transactions", **Book Chapter in Recent Developments and the New Direction in Soft-Computing Foundations and Applications**. Studies in Fuzziness and Soft Computing, volume: 361, Pages: 25-39. Springer. <http://www.iiis.org/CDs2017/CD2017Summer/papers/SA782NU.pdf>
- Waseem Ahmad, **Tanvir Ahmad**, M.M. Sufyan Beg, "Entropy based feature selection for fuzzy set-valued information systems" in **3D Research**, published by Springer, ISSN No.: 2092-6731. <https://link.springer.com/article/10.1007%2Fs13319-018-0170-2>  
Paper indexed in Emerging Science Citation Index (E-SCI), Scopus.
- Adeel Shiraz Hashmi, M.N. Doja, **Tanvir Ahmad**, "An Optimized Density-based Algorithm for Anomaly Detection in High Dimensional Datasets" in **Scalable Computing**, Volume - 19, No.: 1, Pages: 69-77, ISSN - 1895-1767. Paper indexed in Emerging Science Citation Index (E-SCI), Scopus and DBLP. <https://www.scpe.org/index.php/scpe/article/view/1394>
- Adeel S. Hashmi, and **Tanvir Ahmad**, "Frequency-based Fast Algorithm for Anomaly Detection in Big Data" **Journal of Engineering and Applied Sciences** , 12(23), 7389-7392, ISSN: 1818-7803. Paper indexed in Scopus.
- 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 (IJCND)**, 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>

## **PUBLICATIONS - INTERNATIONAL CONFERENCES (SCOPUS INDEXED)**

- Gunjan Ansari, Chandni Saxena, **Tanvir Ahmad**, M.N.Doja, “**Aspect Term Extraction using Graph-based Semi-Supervised Learning**”, *Procedia Computer Science*, Elsevier, Volume: 167, Pages: 2080-2090.
- Waseem Ahmed, M.M.S. Beg, **Tanvir Ahmad**, “**Homomorphism between fuzzy set-valued information systems**” in *Advances in Intelligent Systems and Computing*, Springer, Volume 847, Pages: 219-226. Paper indexed in Scopus.  
[https://link.springer.com/chapter/10.1007/978-981-13-2254-9\\_19](https://link.springer.com/chapter/10.1007/978-981-13-2254-9_19)
- Chandni Saxena, M.N.Doja, **Tanvir Ahmad**, “**Group based Immunization Strategy of Networks with Nonlinear Infectivity**” in *Lecture Notes in Computer Science*, vol. 11280. Springer. International Conference on Computational Data and Social Networks (CSoNet 2018), December 18-20, 2018, Shanghai, China.  
[https://link.springer.com/chapter/10.1007/978-3-030-04648-4\\_14](https://link.springer.com/chapter/10.1007/978-3-030-04648-4_14)
- Amreen Ahmad, **Tanvir Ahmad**, Abhishek Bhatt, Sadaf Siddiqui, “**A Shapley value approach for community detection in social network**” in *Data and Communication Networks, Advances in Intelligent Systems and Computing (AISC)*, Volume: 847. Springer, Pages: 247- 252 at GUCON 2018.  
[https://link.springer.com/chapter/10.1007%2F978-981-13-2254-9\\_22](https://link.springer.com/chapter/10.1007%2F978-981-13-2254-9_22)
- Amreen Ahmad, **Tanvir Ahmad**, Abhishek Bhatt “**A novel approach for predicting the outcome of request in RAOP dataset**”, in *Data and Communication Networks. Advances in Intelligent Systems and Computing (AISC)*, Springer, Pages: 227- 233 at GUCON 2018.  
[https://link.springer.com/chapter/10.1007%2F978-981-13-2254-9\\_20](https://link.springer.com/chapter/10.1007%2F978-981-13-2254-9_20)
- Rafeeq Ahmad, **Tanvir Ahmad**, “**Fuzzy Concept Map generation from Academic data sources**” in *SIGMA’18, Springer Book Series (Advances in Intelligent Systems and Computing)*, ISSN print 2194 - 5357. **Paper indexed in ISI Proceedings, DBLP, Scopus.**  
[https://link.springer.com/chapter/10.1007/978-981-13-1819-1\\_39](https://link.springer.com/chapter/10.1007/978-981-13-1819-1_39)
- Mohd Zeeshan Ansari, **Tanvir Ahmad**, Md Arshad Ali, “**Cross Script Hindi English NER Corpus from Wikipedia**” in *International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI-2018)*, Pages: 1006-1012, *Lecture Notes on Data Engineering and Communications Technologies*, Springer.  
<https://arxiv.org/abs/1810.03430>
- Samar Wazir, M.M.Sufyan Beg, **Tanvir Ahmad**, “**Frequent Itemset Mining on Uncertain Database using OWA operator**” in *ICCCN-2018* published in *Lecture notes in Networks and Systems*, Pages: 745 – 756, published in Springer book series. ISBN- 978-981-13-1216-8
- Taha Owais and **Tanvir Ahmad**, “**Building Domain Familiarity for Elicitation: A Conceptual Framework Based on NLP Techniques**” in *Advances in Intelligent Systems and Computing, (AISC)*, Volume: 697, pages: 577-587. ISSN print 2194 - 5357. **Paper indexed in ISI Proceedings, DBLP, Scopus.**  
[https://link.springer.com/chapter/10.1007%2F978-981-13-1822-1\\_54](https://link.springer.com/chapter/10.1007%2F978-981-13-1822-1_54)



- Shahzad Alam and **Tanvir Ahmad**, in FICTA 2017 in **“A chaotic steganography method using Ant Colony Optimization”** in Intelligent Information Informatics, Springer, Pages: 431-439. Proceedings of the 6<sup>th</sup> International Conference on Frontiers in Intelligent Computing: Theory and Application. [https://link.springer.com/chapter/10.1007/978-981-10-7566-7\\_42](https://link.springer.com/chapter/10.1007/978-981-10-7566-7_42)
- Syed Taha Owais, Seema Khanna, R.S. Mani and **Tanvir Ahmad**, **“Cyber Inclusion Through eServices: Leveraging Digital India Initiatives”** as Technical Poster paper in 5<sup>th</sup> Global Conference on Cyberspace, Ministry of Electronics and Information Technology, Government of India, New Delhi, 23-24<sup>th</sup> Nov, 2017.
- Chandni Saxena, M.N. Doja and **Tanvir Ahmad**, **“Stability of Local Information based Centrality Measurements under Degree Preserving Randomizations”** in Second International Conference on Intelligent Computing & Communication (ICICC-2017). Volume 673, 2018. Pages: 395-403. ISBN: 978-981107244-4. **Paper indexed in Scopus.** [https://link.springer.com/chapter/10.1007/978-981-10-7245-1\\_39](https://link.springer.com/chapter/10.1007/978-981-10-7245-1_39)
- Waseem Ahmed, M.M. Sufyan Beg and **Tanvir Ahmad**, **“Attribute Reduction for Fuzzy Set-valued Information Systems”** to be published in 21st World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2017), Orlando, USA, from July 8-11, 2017. <http://www.iiis.org/CDs2017/CD2017Summer/papers/SA883LD.pdf>
- Adeel Shiraz Hashmi, **Tanvir Ahmad**, **“Big Data Mining Techniques”** in IJST 9(37) Pages: 1-5, ISSN: 0974-6846. <https://indist.org/articles/big-data-mining-techniques>
- Samar Wazir, **Tanvir Ahmad** and M. M. Sufyan Beg, **“Frequent Itemset Mining for a Combination of Certain and Uncertain Databases”** in 6<sup>th</sup> World conference on Soft Computing, Berkeley, U.S.A., May 22<sup>nd</sup> – 25<sup>th</sup>, 2016, as a Springer Verlag Edited book. [https://link.springer.com/chapter/10.1007/978-3-319-75408-6\\_3](https://link.springer.com/chapter/10.1007/978-3-319-75408-6_3)
- Prerna Agarwal, Rafeeq 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>
- 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. [https://link.springer.com/chapter/10.1007/978-981-10-3153-3\\_32](https://link.springer.com/chapter/10.1007/978-981-10-3153-3_32)
- 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. <https://ieeexplore.ieee.org/document/7880240>

- 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.  
[https://link.springer.com/chapter/10.1007/978-981-10-3153-3\\_35](https://link.springer.com/chapter/10.1007/978-981-10-3153-3_35)
- **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.  
<https://ieeexplore.ieee.org/document/7880229>
- 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.  
[https://link.springer.com/chapter/10.1007/978-981-10-3156-4\\_48](https://link.springer.com/chapter/10.1007/978-981-10-3156-4_48)
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