

# Dr Tasneem Bano Rehman

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Address: Quarter no H1, Sector I  
Near Railway Officers Club,  
South Lallaguda, Secunderabad

Mobile No: 8889810626  
E-mail: tasneem.bano@mjcollege.ac.in  
Orchid id- **0000-0001-9435-2805**

## **EDUCATION:**

Phd (Computer Science and Engineering), 2013

MANIT, Bhopal

Topic: Fuzzy logic based Probabilistic Broadcasting Technique for Mobile Adhoc Network

MTech (Computer Science and Engineering), 2007

MANIT, Bhopal

BE (Computer Science, Engineering), 2003

LNCT, Bhopal

## **FIELD OF RESEARCH:**

Mobile ad hoc network, Cloud Computing, Sensor Network, Internet of Things, Theoretical Computer Science.

## **EXPERIENCE:**

- 2.2 years of teaching experience in Laxmi Narain College of Technology, Bhopal, as Assistant Professor from 01-07-2003 till 31-08-2005.
- 0.7 year of teaching experience in BUIT as a visiting faculty, 2007-2008
- 5 years of research and development in Maulana Azad National Institute, 2008-2013.
- 2 year and 9 months, as Associate Professor in Shri Ram Institute of Science and Technology, Jabalpur, 15-07-2013 till 15-04-2016.
- 1.4 years, as Associate Professor in Laxmi Narain College of Technology, Bhopal, 27-03-2017 till 31-07-2018.
- 1.6 years, as Associate Professor in Technocrats Institute of Technology, Bhopal, 01-08-2018 till 15-01-2020.
- Professor in Sage University, Bhopal, 20-01-2020 till 01-03-2024.
- Professor in Muffakham Jah College of Engineering and Technology, Hyderabad, 01-08-2024 till date.

## **HONOURS AND RECOGNITION:**

- Certified Enterprise Design Thinking Practitioner, IBM, Oct-2020.
- Certified Leadership Skill, IIMA, Jun-2023
- Oversaw the STPI, Indore collaboration with LNCT for mentoring, training, guiding and Research and Development for IT/ITES start-ups, 09/2017

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- **Reviewer** for Journals: ELSEVIER in Ad Hoc Networks Journal, SAI Publication in International Journal of Advanced Computer Science and Applications (IJACSA), The 4<sup>th</sup> International Conference on Fuzzy Systems and Data Mining (FSDM- 2018), Global Journals, ASTESJ Journal, Applied Nano Science, Springer Journal, IEEE/ACM Transactions on Networking, and Several International Conferences
- **Chief Editor of Department magazine “INCEPTIVE”**, 2017 at LNCT, Bhopal.
- **Granted a sponsorship of 1.75 lakh from MPCST for organizing 2022 IEEE International Conference on Current Development in Engineering and Technology (CCET)”** on 23-24 Dec, 2022

## PUBLICATIONS

1. Tasneem Bano, Jyoti Singhai, Meenu Chawla, "Enhancement of Optimized Link State Routing Protocol by an efficient Implementation", 5th IEEE Conference on Wireless Communication and Sensor Network WCSN-2008 , IIITM Allahabad Dec 15-17, 2008. ISBN-978-1-4244-3326-1.
2. Tasneem Bano and Jyoti Singhai, "A study of Probabilistic broadcasting protocol in Ad hoc network", Proceedings of National Conference Recent Trends and Challenges in Internet Technology RTCIT-2010, MANIT Bhopal 19-20 March 2010.
3. Tasneem Bano and Jyoti Singhai, "Probabilistic broadcasting protocol in ad hoc network and its advancement: a Review", International Journal of Computer Science and Engineering survey, IJCSES volume 1, number 2, Nov 2010, AIRCC Publication. ISSN-0976-2760 Online ISSN-0976-3252 (Print). Impact factor awaited.
4. Tasneem Bano and Jyoti Singhai, “Fuzzy-Logic Based Probabilistic Broadcasting Technique For Mobile Adhoc Networks”, International Journal of Computer Science Issues, **IJCSI** Volume 9, Issue 3, May 2012, ISSN (Online): 1694-0814. Impact factor: 0.34
5. Tasneem Bano and Jyoti Singhai, “Probabilistic: A Fuzzy Logic-Based Distance Broadcasting Scheme For Mobile Ad Hoc Networks”, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 3, No. 9, 2012. ISSN : 2156-5570 (Online) ISSN : 2158-107X (Print). Impact Factor: 1.187. **SCOPUS Journal**
6. Tasneem Bano and, Jyoti Singhai, “A Fuzzy-Logic Control Based Probabilistic Broadcasting Technique For Mobile Adhoc Networks”, Journal of Intelligent and Fuzzy System, Vol. 27, no. 4, Feb-2014. ISSN: 1064-1246 (Print), 1875-8967 (Online). **SCI Journal**
7. Divya Jain, Tasneem Bano Rehman, “A Survey: Heterogeneous Clustering approach in Wireless Sensor Network”, International Journal of Innovative Trends in Engineering, Volume 2, number 1, 2015. ISSN: 2319-1058 (Online). Impact Factor: 0.672
8. Divya Jain, Tasneem Bano Rehman, “Wireless Sensor Network Classification: A Review”, International Journal of Scientific Progress and Research, Volume 8, Number 2, 2015. ISSN: 2349-4689 (Online). Impact Factor: 1.22

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9. Pooja Vilas Shinde, Tasneem Bano Rehman, “A Survey: Video Steganography techniques”, International Journal of Engineering Research and General Science, Volume 3, Issue 3, May-June, 2015. ISSN 2091-2730
10. Pooja Shinde, Tasneem Bano Rehman, “ A Novel Video Steganography Technique”, International Journal of Advanced Research in Computer Science and Software Engineering, Vol 5 Issue 12, 28 Dec-2015.ISSN:2277 128X.
11. Namrata Bhagat, Tasneem Bano Rehman, “Study on Various Extensions of Leach Protocol”, International Journal of Computer Applications (IJCA), Feb-2016
12. Tasneem Bano Rehman, “Cloud Computing: A juxtapositioning with Grid computing”, International Conference on Recent Innovation in Signal processing and Embedded systems (RISE-2017), IEEE, Oct 27-29/2017. DOI: <https://ieeexplore.ieee.org/document/8378207>  
**Electronic ISBN:978-1-5090-4760-4**  
**Print on Demand(PoD) ISBN:978-1-5090-4761-1**
13. Shifa Manihar, Tasneem Bano Rehman, Ravindra Patel, Sanjay Agrawal, “Intelligent and Scalable IoT Edge-Cloud System”, International Journal of Advanced Computer Science and Applications, Vol. 11, No. 8, 2020. **SCI Journal** DOI: <https://dx.doi.org/10.14569/IJACSA.2020.0110846>
14. Harinder Singh, Tasneem Bano Rehman, Ch. Gangadhar, Rohit Anand, Nidhi Sindhwani, M. Vijaya Sekhar Babu, “Accuracy detection of coronary artery disease using machine learning Algorithms”, Applied Nanoscience, Springer, Aug-2021. **SCI Journal**.  
DOI:[https://ui.adsabs.harvard.edu/link\\_gateway/2021ApNan.tmp..398S/doi:10.1007/s13204-021-02036-7](https://ui.adsabs.harvard.edu/link_gateway/2021ApNan.tmp..398S/doi:10.1007/s13204-021-02036-7)
15. Kiran Kumar Chandriah, Tasneem Bano Rehman, G. Karthikeyan, Preetha Dulles, Dinku Worku Debele and P. John Augustine, “Improved Privacy of Data Transaction in IoT Enabled Privacy Based Algorithm”, Bioscience Biotechnology Research Communications, Vol 14. No 07, 2021. **WOS** DOI: <http://dx.doi.org/10.21786/bbrc/14.7.50>
16. Dinesh Kumar, Vipin Kumar, Dr. Muhammad Ahtesham Farooqui, Dr Tasneem Bano Rehman, Dr. Shalu, Prof.Ramesh Chandra Panda, “Human Motion Detection Based Upon CNN with Pruning and Edge Detection”, Design Engineering, 2021 Issue 8, Pages 6766 – 6772. ISSN: 0011-9342. **SCOPUS**  
DOI: <http://www.thedesignengineering.com/index.php/DE/article/view/5654>
17. Tasneem Bano Rehman , S. Chandra Sekaran , Narendra VG , Yesha Tomar, Hazdayka-Vasylyshyn Iryna Bogdanivna , Gapchich Vitaliy Oleksiivuch, “Adaptive Business Intelligence For Healthcare 4.0 Using Internet Of Things Based Wireless Body Area Networks”, Vidyabharati International Interdisciplinary Research Journal, November-2021 Special issue-Part-22, Pages: 3319-3328 **Indexed In : ESCI-Web of Science**, ISSN 2319-4979|. DOI: <http://www.viirj.org/specialissues/SP11/Part%2022.pdf>
18. Shukla Sheetakshi, Rehman Bano Tasneem (April,2022). **VAPT & Exploits, along with Classification of Exploits**. Journal of Computer Science and Engineering, vol. 9, no. 3, Mar. 2022, pp. 1-4. ISSN: 2348-

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- 8387/doi:10.14445/23488387/IJCSE-VXXXX. <https://doi.org/10.14445/23488387/IJCSE-V9I3P101>.
19. Maithil Keerti, Rehman Bano Tasneem (April, 2022). Urban Remote Sensing Image Segmentation using Dense U-Net+. International Journal of Computer Science and Engineering, vol. 9, no. 3, Mar. 2022, pp. 21-28. ISSN: 2348-8387/doi:10.14445/23488387/IJCSE-VXXXX.  
Crossref, <https://doi.org/10.14445/23488387/IJCSE-V9I3P103>
  20. Parveen Afshan, Rehman Bano Tasneem (April, 2022). A Hybrid approach on CNN-LSTM for the prediction on paddy plant diseases. Life Science Bulletin Journal. ISSN 2321-7952
  21. Manihar Shifa, Rehman Bano Tasneem (May,2022). Digital Mandi: Revolutionizing The Agriculture Production And Supply Chain Using Block Chain Technology In India. Tianjin Daxue Xuebao (Ziran Kexue yu Gongcheng Jishu Ban)/ Journal of Tianjin University Science and Technology, SCOPUS, Vol:55 Issue:05:2022 DOI 10.17605/OSF.IO/XYK4E ISSN (Online): 0493-2137
  22. Tasneem Bano Rehman Madijagan M, Ramya. D, M.Saratha, Mohan Krishna P B, Prashant Kumar Aug(2022). Prediction of Heat Transfer in Smart Building using Internet of Things based Artificial Intelligence. 3<sup>rd</sup> International Conference on Electronics and Sustainable Communication system ICEC 2022. IEEE Explorer proceedings, SCOPUS. <https://ieeexplore.ieee.org/document/9885554>
  23. Keerti Maithil; Tasneem Bano Rehman. Semantic Segmentation of Urban Area Satellite Imagery Using DensePlusU-Net, 2022 IEEE International Conference on Current Development in Engineering and Technology (CCET), 03 April 2023, 10.1109/CCET56606.2022.10080484.
  24. Purvi Sankhe, Shruti Mathur, Tasneem Bano Rehman, Mukesh Dixit. Review of an Agile Software Development Methodology with SCRUM & Extreme Programming. 2022 IEEE International Conference on Current Development in Engineering and Technology (CCET), 03 April 2023
  25. Saravanan, V., Madijagan, M., Tasneem Bano Rehman. *et al.* IoT-based blockchain intrusion detection using optimized recurrent neural network. *Multimedia Tools Applications*, Springer,Sept-2023. <https://doi.org/10.1007/s11042-023-16662-6>

**BOOK:** “CLOUD COMPUTING”, July-2017, New Age Publication, Delhi.

“CLOUD COMPUTING BASICS”, July-2019, Mercury Learning and Information.

**CHAPTER:** “IoT Healthcare Application” in the book titled “IoT in healthcare systems: Application, Benefits, Challenges and Case Studies”, CRC Press, 2023.

## PATENT

- File Number: 2021100538

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Filed Date: 28.01.2021

Granted Date: 31.03.2021

Country Filed: Australia

Final Title: Crop Health Monitoring System Using IoT and Machine Learning

- File Number: 344690-001

Filed Date: 14.06.2021

Published: 15.04.2022

Granted: 06.04.2022

Country Filed: India (Design)

Final Title: Smart Phone

- File Number: 202121027845

Filed Date: 22.06.2021

Published Date: 30.07.2021

Country Filed: India

Final Title: IoT Based Real Time Automated Air Purifier

## **WORKSHOP/ FDP ATTENDED:**

- Faculty development program/ workshop on “Implementation of Neural Network Models for Pattern Recognition using Matlab”, sponsored by MP council of science and technology, Bhopal, 24-25 April 2015.
- Workshop on “Application of Matlab for Engineering Computations (AMEC)” at IIITDM, Jabalpur, 01-05 December 2014.
- Workshop on “Digital Forensic” conducted under ISEA project MANIT, Bhopal, 18-20 February 2010.
- AICTE Training and Learning (ATAL) Academy on Design Thinking from 7/12/2020 to 11/12/2020 at VIT.
- AICTE Training and Learning (ATAL) Academy on Data Science and Analytics from 30/11/2020 to 04/12/2020 at IIIT, Nagpur.
- AICTE-RGPV Teachers training program (TTP) on Applied Natural Language Processing, 18<sup>th</sup>-23<sup>rd</sup> Jan, 2021.

## **STTP ORGANISED:**

- Two days Short Term Training Program on “IOT using Arduino and Raspberry Pi”, 14-15<sup>th</sup> Feb, 2020 under TEQIP III. SIRTS, Bhopal

## **CONFERENCE ORGANISED:**

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- International Conference was orchestrated as a publicity chair on “Cyber Physical system and its application” on 6-7 Feb,2019 at Technocrats Institute of Technology.
- National Conference was orchestrated as a Convener on “Recent Advances in Science and Technology” on 19<sup>th</sup> June,2021 in association with IETE, New Delhi and IBA at Sage University, Bhopal.
- IEEE International Conference was orchestrated as the General Chair of “2022 IEEE International Conference on Current Development in Engineering and Technology (CCET)” on 23-24 Dec, 2022 in association with IEEE Madhya Pradesh Section at Sage University, Bhopal.
- Springer International Conference was orchestrated as the General Chair of “Applied Machine Learning and Data Analytics Conference (AMLDA 2023)” at Universität zu Lübeck, Germany on 9-10 Nov, 2023.

## **Expert Lecture:**

- ARKA JAIN University in June,2020 on “Internet of Things”.
- Sage Winter School, Nov 2020 on “Introduction to Web Scraping”
- Univariety, Nov 2020 on “Lead Ahead during the crisis with advanced computing”.
- Sri Sai Group of Institution, 3rd June,2021 on "Transforming research into innovation".

## **MEMBERSHIP OF PROFESSIONAL BODIES:**

- Lifetime Member of The Indian Society for Technical Education, (101553).
- Lifetime Member of Computer Society of India, (I1502197).
- CSTA (Computer Science Teaching Association), (1947909).
- IAENG (International Association of Engineers), (281447)
- IEEE, (98281528)

## **PERSONAL INFORMATION:**

- ✓ Father Name: Late Dr K Haider
- ✓ Husband Name: Mohd Adib ur Rehman
- ✓ Date of Birth: 27<sup>th</sup> June 1981