



Name of the faculty: Dr Tasneem Bano Rehman

Designation: Professor, School of Advanced Computing

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Educational Qualification: Ph.D. (CSE) NIT-Bhopal, MTech (CSE) NIT-Bhopal, BE (CSE)

Total Experience: 17 years

Academic: 12 years | Research: 5 years

Areas of Interest:

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

Brief Profile:

Dr. Tasneem Bano Rehman holds M.Tech and Ph.D. in Computer Science from Maulana Azad National Institute of Technology (MANIT), Bhopal, India. She has about 17 years of experience in teaching and research in different areas of Computer Science and currently working as Professor in the School of Advanced Computing. She has around 22 papers in reputed SCI, Scopus, WOS care listed journals, 1 book on “Cloud Computing” published under Mercury Learning and Information & New Age Publication, Delhi and 9 international & national patents to her credit. Her research interests include Mobile Adhoc Network, Cloud Computing, Sensor Network, Internet of Things, Edge Computing and Network Security.

Research publications in International Journal:

1. 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.

2. 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
3. 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**
4. 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**
5. Divya Jain, Tasneem BanoRehman, "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
6. 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
7. 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
8. 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.
9. Namrata Bhagat, Tasneem Bano Rehman, "Study on Various Extensions of Leach Protocol", International Journal of Computer Applications (IJCA), Feb-2016.
10. ShifaManihar, 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>
11. Harinder Singh, Tasneem BanoRehman, 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

12. Kiran Kumar Chandriah, Tasneem Bano Rehman, G. Karthikeyan, Preetha Dulles, DinkuWorkuDebele and P. John Augustine, “Improved Privacy of Data Transaction in IoT Enabled Privacy Based Algorithm”, BioscienceBiotechnology Research Communications, Vol 14. No 07, 2021. **WOS** DOI: <http://dx.doi.org/10.21786/bbrc/14.7.50>
13. 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>
14. 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>
15. 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: 2348-8387/doi:10.14445/23488387/IJCSE-VXXXX. <https://doi.org/10.14445/23488387/IJCSE-V9I3P101>.
16. MaithilKeerti, 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>
17. 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

18. ManiharShifa, Rehman Bano Tasneem (May,2022). Digital Mandi: Revolutionizing The Agriculture Production And Supply Chain Using Block Chain Technology In India. Tianjin DaxueXuebao (ZiranKexueyuGongchengJishu Ban)/ Journal of Tianjin University Science and Technology, SCOPUS Vol:55 Issue:05:2022 DOI 10.17605/OSF.IO/XYK4E ISSN (Online): 0493-2137

Total Citation Index: (h-index:, i10-index:)

Citation- 44

h-index- 5

i10-index- 1

Papers presented in International Conferences

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, IITM Allahabad Dec 15-17, 2008. ISBN-978-1-4244-3326-1.
2. 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

Papers presented in National Conferences:

1. 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.

Patents:

- File Number: 2021100538
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: 2021101539
Filed Date: 25.03.2021

Granted Date: 02.05.2021
Country Filed: Australia
Final Title: System and Method for Indoor Clothes Dryer Using Direct Transportation of Solar Light

- File Number: 202111012748
Filed Date: 24.03.2021
Published Date: 02.04.2021
Country Filed: India
Final Title: Object Identification System for Blind People.
- File Number: 2021102837
Filed Date: 25.05.2021
Granted: 24.03.2022
Country Filed: Australia
Final Title: A method and system for developing an automated framework for ensuring a negative RTPCR report of a travel.
- 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
- File Number: 349011-001
Filed Date: 09.07.2021
Country Filed: India (Design)
Final Title: IoT Based Cost Effective Desalination Device
- File Number: 349011-001
Filed Date: 09.09.2021
Country Filed: India (Design)
Final Title: IoT Based Aquaculture System
- File Number: 356746-001
Filed Date: 14.01.2022
Published: 01.04.2022
Granted: 14.05.2022
Country Filed: India (Design)
Final Title: Vaccination device without needle

International/National Conference & Workshops 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.
- Dr Tasneem Bano Rehman attended IEEE Quantum Internet Summit on February 22, 2022.

FDP Attended:

- 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, 18th-23rd Jan, 2021.
- Dr Tasneem Bano Rehman attended 1 week FDP on “Applications of Data Science and IoT in Healthcare, Social Care and Business Aspects” organized by GLOCAL University, Sahranpur. 2-8th Feb-2022

Awards/Recognitions:

- Enterprise Design Thinking Practitioner, IBM, Oct-2020.

Workshops/Seminars/Conference Organized:

- Two days Short Term Training Program on “IOT using Arduino and Raspberry Pi”, 14-15th Feb,2020 under TEQIP III. SIRTS, Bhopal
- National Conference was organized as a Convener on “Recent Advances in Science and Technology” on 19th June,2021 in association with IETE, New Delhi and IBA.

- Organized webinar on “NSE investor awareness program learning how to manage finances during unprecedented times like covid-19” by Mr Faisal Khan, Founder of Eficaz solution on 28 August 2020.
- Organized a symposium on “Empowering India one block at a time” by Mr George Levy, Miss Shivani Agrawal and Mr Raj Kapoor, GLobal Blockchain Guru Head BocksEDU Canada on 29 August 2020.
- Organized a webinar on “Let’s set goals- achieve real goals with effective time management” by Miss Deepmala Singh, Soft Skill Trainer and Life Coach on 07 October 2021.
- Organized a webinar on “My blockchain my future” by Mr Raj Kapoor, Founder India blockchain alliance & India STEM Alliance on 19 September 2020.
- Organized a webinar on “Entrepreneurship development: Prospects and challenges” by Mr S H Abbas Mehdi, Joint director & OIC STPI-MP on 19 February 2021.
- Organized a webinar on “Role of Artificial Intelligence in Cyber Security and showcase various tools involved in it” by Dr Gururaj H L, Associate Professor & ACM Distinguished Speaker Computer Science and Engineering Vidyavardhaka College of Engineering, Mysuru, Karnataka, India on 22 April 2021.
- Organized a webinar on “Innovation & Intellectual Property right Practices” by Prof Ramesh Chandra Panda, Dean R&D on 20 May 2021.
- Organized a webinar on “Recent trends in Cyber Security” by Mr Rahul Mishra, Cyber Security Advisor, Uttar Pradesh Police on 29 August 2021.
- Organized 1 day workshop on “Cyber Security and Safety” by Mr Rahul Mishra and Mr Virendra C Nishad on 10th June 2022.

Expert Lectures Delivered:

- Expert Lecture in a seminar organized by ARKA JAIN University in June, 2020 on “Internet of Things”.
- Expert Lecture in Sage Winter School, Nov 2020 on “Introduction to Web Scraping”.
- Expert Lecture in a seminar organized by University, Nov 2020 on “Lead Ahead during the crisis with advanced computing”.
- Expert Lecture in a seminar organized by 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)

Other Achievements: Reviewer of-

- ELSEVIER in Ad Hoc Networks Journal.
- SAI Publication in International Journal of Advanced Computer Science and Applications (IJACSA).
- The 4th International Conference on Fuzzy Systems and Data Mining (FSDM- 2018) reviewer
- Global Journals
- ASTESJ Journal
- Applied Nano Science, Springer Journal