Curriculum Vitae

Dr. AFROZ
Associate Professor
Department of Mathematics
MANUU, Hyderabad
Mob: 8886289350, 9212706186
E-Mail :afroz.ahmad@manuu.edu.in

Academic Qualifications

1. B.Sc. (Pass) from Jamia MilliaIslamia, New Delhi-110 025 in 2000.

2. M. Sc. (Mathematics with Computer Science) from Jamia Millia Islamia,New Delhi-110 025 in 2002.

3. M. Phil. (Mathematics) from Alagappa University, Karaikudi, Tamilnaidu in 2007.

4. Ph.D. on a thesis entitled " Wavelets and Its Applications in Biomedical Signal Processing" under the supervision of Prof. Khalil Ahmad (D/o- Mathematics, JMI) and co-supervision of Prof. Z.A. Jaffery (D/o-ElectricalEngineering, JMI); from Department of Mathematics, Jamia MilliaIslamia, New Delhi-110 025 in 2011.

Teaching Experience

S.No.	Position held	Name of Institution	From	To
1	Associate Professor	Maulana Azad National Urdu University, Hyderabad	27-02-2020	Till Date
1.	Assistant Professor	Maulana Azad National Urdu University, Hyderabad	25-09-2014	26-02-2020
1.	Assistant Professor	Zakir Husain Delhi College, Delhi University	03.03.2011	21.09.2014
2.	Assistant Professor	Dyal Singh College, Delhi University	August, 2009	Feb, 2011
3.	Lecturer	Alfalah School of Engg. and Tech., Faridabad, Haryana	2006	2007

Tittle of Ph. D. Thesis

Wavelet and Its Applications in Biomedical Signal Processing

Area of Interest

Wavelets Applications in Biomedical Signal Processing, Image Processing and Solving Differential Equations using wavelets.

Project Awarded

Project entitled " Applications of Wavelets in Biomedical Signal Processing" awarded from University Grant Commission, Govt. of India of amount 6 lakhs for the duration of 2016-18.

Computer Experience

C and C++ -Programming during M.Sc. (Mathematics). Matlab, Mathematica, MS-office, Windows.

Courses Taught

- **UG/PG Courses**: Algebra, Linear Algebra, Differential Equations, Complex Analysis, Calculus, Numerical Analysis, Co-ordinate Geometry, Operations Research, Advanced Calculus, Probability and Statistics.

List of Published Research Papers

1. Afroz, Imtiyaz Ahmad Wani, (2019). Denoising of Electrocardiogram Based on Norm Parameter Using Wavelet Packet Transform.**International Journal of Engineering and Advanced Technology**. 9, 3377-3383.
2. Afroz, Imtiyaz Ahmad Wani, (2019). Comparison of SNR Values for Different Wavelet Functions using Wavelet Packet Transformation. **International Journal of Research in Advent Technology**. 7, 1436-1442.
3. Abdullah, Afroz, (2019). Sufficient Condition for Wavelet Frame on Positive Half-Line. **International Journal for Research in Applied Science & Engineering Technology.** 7, 2503-2507.
4. Afroz, Imtiyaz Ahmad Wani, (2018). Comparison of ECG Denoising Threshold Estimators through Wavelet Packet Analysis. International Journal of Advance Research in Science and Engineering. 7, 103-108.
5. Abdullah, Afroz (2018). Semi- orthogonal wavelet frames on positive half-line using the Walsh Fourier Transform. **New Trends in Mathematical Sciences.** 6, 175 -183.
6. Abdullah, Afroz, (2017). Detection of ECG R- Waves using Wavelet Transform.**European Journal of Scientific Research.** 145, 181-187.
7. Afroz, (2016). Selection of Best Wavelet Filter For Denoising of ECG Signal. Journal of Applied Mathematics in Science and Technology, 31-39.
8. **Afroz,**Jaffery Z.A., Khalil Ahmad (2014). ECG Baseline Drift Elimination Using Wavelet Packets Transform. Australian Journal of Basic and Applied Sciences, 8 ,459-466.

9. **Afroz,**Jaffery Z.A., Khalil Ahmad**(2013).**Applications of Wavelet Packets in ECG Signal Denoising. Journal of Wavelet Theory and Applications.1, 35-44.
10. Khalil Ahmad, Jaffery Z. A. and **Afroz (2011)**. Denoising of ECG Signal using Wavelet Transform. JMI International Journal of Mathematical Sciences. 2, 26-33.

11. Jaffery Z. A., Ahmad K., **Afroz**(2010). Performance Comparison of Wavelet Threshold Estimators for ECG Signal Denoising. IEEE, Proc. International Conference on Advances in Recent Technologies in Communication and Computing.

Participation in Conferences and Workshops

1. Participated in the International Conference on Modelling of Engineering andTechnological Problems (ICMETP-2009) held at BMAS Engineering College,Keetham, Agra during 14-16 January, 2009.

2. Participated and presented a paper entitled "Denoising of ECG Signal using Wavelet Transform using Wavelets" in the International Conference on Recent Trends inMathematics and its Applications (ICRTMA-09) held at Jamia Millia Islamia,New Delhi during 30-31 March, 2009.

3. Participated and presented a paper entitled "Performance Comparison of Wavelet Threshold Estimators for ECG Signal Denoising" in the International Conference on Advances in Recent Technologies in Communication and Computing, (IEEE-2010) held at Kottayam, Karla, India, Oct 15-16, 2010.

Book Chapters Published

1. Afroz, (2019). Emerging Security Algorithms and Techniques (Ch -1Modular Arithmetic). CRC Press Taylor and Francis Group. 1, 1-10.
2. Afroz, (2019). Emerging Security Algorithms and Techniques (Ch -2Modular Arithmetic). CRC Press Taylor and Francis Group. 1, 11-26.
3. Afroz and Basharat Hussain (2020). Machine Learning and Big Data (Ch -1Mathematical Foundation). Wiley.
4. Afroz and Basharat Hussain (2020). Machine Learning and Big Data (Ch-2 Theory of Probability). Wiley.

Life Member

Indian Society of Industrial & Applied Mathematics

Personal Details

Father's Name- Fakhruddin
Marital Status- Married

Date:
Place: (AFROZ)