

## HAROON YOUSUF MIR

Ph.D. (Submitted, Thesis Report Received)  
Department of ECE  
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Google Scholar: <https://scholar.google.com/citations?hl=en&user=8fhPv1UAAAAJ>

Research gate: <https://www.researchgate.net/profile/Haroon-Mir>

### EDUCATION and WORK TIMELINE

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**PhD**                      **Electronics and Communication Engineering**                      **(CGPA:8.12)**                      2019-2024  
(Submitted)

**Institute:**    National Institute of Technology Srinagar Kashmir J&K

**Dissertation:**    *“Biomedical Signal Processing using Adaptive Data Analysis Methods”*

**Supervisor:**    [Dr. Omkar Singh](#)

**M. Tech.:**                      **Electronics and Communication Engineering**                      **(CGPA: 7.0)**                      2016-2018

**Institute:**    National Institute of Technology Jalandhar Punjab

**Dissertation:**    *“Improvement of Different Skills in Autistic Children using Kinect”*

**Supervisor:**    [Prop. Arun Khosla](#)

### Exams Qualified

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- Gate: 2016

### OTHER COURSES

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- Certified in 3 months industrial internship in from Doordarshan Kendra Srinagar J&k.
- Certified in 6 weeks industrial internship in GSM systems, Broadband Networks & OFCTechnology from BSNL.
- Attended 6 weeks course in C++ at NIIT Srinagar

## EXPERTISE AND TECHNICAL SKILLS

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- **Tools:** MATLAB
- **Proficient in:** Microsoft Office (Word, Excel, PowerPoint), LaTeX.
- **Operating Systems:** Windows

## GRANTS AND AWARDS

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- Gate Fellowship for M.Tech. (2016-2018)
- MHRD Research grant for Ph.D. (2019-2024)

## PUBLICATIONS

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### Journals:

- 1) Mir, Haroon Yousuf, and Omkar Singh. "ECG denoising and feature extraction techniques—a review." *Journal of medical engineering & technology* 45, no. 8 (2021): 672-684. (Scopus)
- 2) Mir, Haroon Yousuf, and Omkar Singh. "Power-line interference and baseline wander elimination in ECG using VMD and EWT." *Computer Methods in Biomechanics and Biomedical Engineering* (2023): 1-20. (SCI)
- 3) Mir, Haroon Yousuf, and Omkar Singh. "Powerline interference reduction in ECG signals using variable notch filter designed via variational mode decomposition." *Analog Integrated Circuits and Signal Processing* 118, no. 2 (2024): 317-328. (SCI)
- 4) Yousuf Mir, Haroon, and Omkar Singh. "A Novel Approach for Denoising ECG Signals Corrupted with White Gaussian Noise Using Wavelet Packet Transform and Soft-Thresholding." *International Journal of Computing and Digital Systems* 15, no. 1 (2024): 1359-1373. (Scopus)
- 5) Haroon Yousuf, and Omkar Singh” Enhancing Remote ECG Monitoring through Compressive Sensing: A Novel Approach”. [Minor Revision Submitted]. “**Circuits, Systems & Signal Processing**”.(SCI)

### IEEE Conference Publications

- 1) Mir, H. Y., & Singh, O. (2023, October). VMD Based Powerline Interference Cancellation in ECG Signals. In *2023 Twelfth International Conference on Image Processing Theory, Tools and Applications (IPTA)* (pp. 1-4). **IEEE Paris, (Presented in France)**.
- 2) Mir, H. Y., & Khosla, A. K. (2018, June). Kinect based game for improvement of sensory, motor and learning skills in autistic children. In *2018 Second International Conference on Intelligent Computing and Control Systems (ICICCS)* (pp. 1670-1674). **IEEE**.

### Book Chapter

- Mir, Haroon Yousuf, and Omkar Singh. "Adaptive Data Analysis Methods for Biomedical Signal Processing Applications." In *AI-Enabled Smart Healthcare Using Biomedical Signals*, pp. 52-71. **IGI Global**, 2022. (Scopus)

### TEACHING AND MENTORING EXPERIENCE

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- 2016-2024  
Teaching assistant  
Basic Electronics Lab, Advanced electronic devices Lab, Digital Electronics Lab, Analog Electronics Lab, Image Processing, Embedded Lab, and Tutorial for ECE B.tech students.
- August 2024 till Date  
Contractual Faculty in Institute of Technology University of Kashmir  
Subject Taught: Digital Electronics, Signal and Systems, Digital Signal Processing

### PROFESSIONAL AFFILIATIONS

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- Student Member IEEE
- Reviewer in Journal of International Journal of Computing and Digital Systems (IJCDS), Recent advances in electrical & electronic engineering , Biomedical Signal Processing and Biomedical Physics & Engineering Express.

## REFERENCES

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**1. Dr. Omkar Singh (Ph D Supervisor)**

Assistant Professor  
Department of Electronics and Communication  
Engineering National Institute of Technology  
Srinagar-India

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**2. Dr. Arun khosla (M. Tech Supervisor)**

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