



## UNIVERSITY OF CALCUTTA

### RESEARCH SCHOLAR ACADEMIC PROFILE/ CV

**Full name:** SANDIPAN DHAR.

**Designation:** Research Fellow (TEQIP III), Department of Applied Physics.

**Research topic:** Bio-Signal Acquisition, Compression, Encryption and Classification.

**Current Status:** Registered and completed course work.



#### **Contact information:**

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#### **Academic qualifications:**

<b>College/ university from which the degree was obtained</b>	<b>Abbreviation of the degree with subject</b>
University of Calcutta	B.Sc. (Electronics Hons.)
West Bengal State University	M. Sc. (Electronic Science)

## Positions held/ holding:

- **Research Fellow** under **TEQIP Phase III** the Department of Applied Physics, University of Calcutta. (Apr,2018 – till date).
- **Junior Research Fellow** under **TEQIP Phase II** the Department of Applied Physics, University of Calcutta. (Nov,2014-Feb,2017).
- **Guest Lecturer** in Department of Applied Physics, Calcutta University for delivering lectures to B.Tech students (2015,2017).
- **Part-time Physics Teacher** in Tapati Balika Bidyabithi, Newbarrackpore, Kolkata-700131 from 2011 to 2014.

## Research interests:

- Biomedical Signal Processing
- Sensing Technology
- Cloud computing.

## List of publications:

### Journals:

1. **S. Dhar**, S.K. Mukhopadhyay, S. Pal, M. Mitra, “An efficient data compression and encryption technique for PPG signal” **Measurement** 116 (2018) 533–542.

### Conference proceedings:

1. **S. Dhar**, S. K. Mukhopadhyay, S.Mitra, M. M. Baig M.Mitra, “Noise Reduction and ECG Feature Extraction Using Interpolation and Hilbert Transform”, International Conference on Control, Instrumentation, Energy and Communication (CIEC 14), 31st Jan – 2 Feb, 2014, Kolkata, India, pp. 232-236, ISBN: 978-1-4799-2044-0, DOI: 10.1109/CIEC.2014.6959085, Available in **IEEE Xplore**.
2. **S. Dhar**, S. K. Mukhopadhyay, M. M. Baig, S. Mitra, M. Mitra, “Noise Reduction and Lossless ECG Encoding”, International Conference on Control, Instrumentation, Energy and Communication (CIEC 14), 31st Jan – 2 Feb, 2014, Kolkata, India, pp. 210-213, ISBN: 978-1-4799-2044-0, DOI: 10.1109/CIEC.2014.6959080, Available in **IEEE Xplore**.

## Educational achievements and Fellowships:

- Awarded the **MERIT-CUM-MEANS SCHOLARSHIP** 2008, during the time of pursuing M.Sc.
- Awarded the **Junior Research Assistantship** under **TEQIP Phase II**, for pursuing the Research in the Department of Applied Physics, University of Calcutta.
- Accomplished the six week certificate course on –“**Electrophysiological and Neuroimaging Studies including Mathematical Modeling**” organized by **UGC funded Centre with potential for excellence in a Particular Area(CPEPA)** held at **University of Calcutta**.
- Awarded the **Research Assistantship** under **TEQIP Phase III**, for pursuing the Research in the Department of Applied Physics, University of Calcutta.