



UNIVERSITY OF CALCUTTA

RESEARCH SCHOLAR ACADEMIC PROFILE/ CV

Full name of the Research Scholar: Sangita Das

Designation: Senior Research Fellow, CSIR

Research Topic: Assistive technologies for automated cardiac abnormalities detection

Status: Registered



Contact information :

Department of Applied Physics, University of Calcutta
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Academic qualifications:

College/ university from which the degree was obtained	Abbreviation of the degree
University of Calcutta	B.Sc. (Physics Hons.)
University of Calcutta	B.Tech (Instrumentation Engg.)
University of Calcutta	M.Tech (Instrumentation & Control Engg.)

Positions held/ holding

- CSIR, SRF, Calcutta University, 2018
- Project Fellow, UPE-II, Calcutta University, 2017-2018
- SRA, TEQIP Phase-II, Calcutta University, 2015-2017
- Assistant Prof. Electrical Engineering Department, CSET, 2010-2015

Research interests:

- Automated heart sound analysis system
- ECG and PPG signal processing and analysis

List of publications:

1. Das, Sangita & Gupta, Rajarshi & Mitra, Madhuchhanda. (2012). *Development of Analog ECG simulator using standalone embedded system. International Journal of Electrical, Electronics and Computer Engineering*. 1. 83-87
2. Das, Sangita, Saurabh Pal and Madhuchhanda Mitra. "Real time heart rate detection from PPG signal in noisy environment." *2016 International Conference on Intelligent Control Power and Instrumentation (ICICPI) (2016): 70-73.*
3. Das, Sangita, Saurabh Pal and Madhuchhanda Mitra. "Arduino-based noise robust online heart-rate detection." *Journal of medical engineering & technology 41 3 (2017): 170-178.*
4. Das, Sangita, Saurabh Pal and Madhuchhanda Mitra. "Automated fundamental heart sound detection using spectral clustering technique." *2017 IEEE Calcutta Conference (CALCON) (2017): 264-267.*

Workshop/ Seminar attended:

- **Science & Technological Exhibition (STEX-07)**, Organized by IEEE Student Branch, University of Calcutta, **8th October, 2007** at Institute of Radio Physics & Electronics.
- **Embedded Series Seminar**, Organized by Texas Instruments (TI), **27th September, 2011** at Hyatt Regency.
- **MATLAB for Data Analytics and Computer Vision**, Organized by MathWorks, **15th September, 2015** at The Gateway Hotel.
- **2017 IEEE CIS summer school on Recent advances in computational intelligence (RACI)**, **18-22 September, 2017** at ISI, Kolkata.