



UNIVERSITY OF CALCUTTA

RESEARCH SCHOLAR ACADEMIC PROFILE/ CV

Full name of the Research Scholar: Surita Sarkar

Designation: Senior Research Fellow, CSIR

Research Topic: Studies on Signal Based Alternative Methodologies for Characterization of Obstructive Lung Diseases

Status: Registered



Contact information:

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Academic qualifications:

College/ university from which the degree was obtained	Abbreviation of the degree
University of Calcutta	M.Tech (Instrumentation & Control Engg.)
West Bengal University of Technology	B.Tech (Applied Electronics & Instrumentation Engg.)

Positions held/ holding

- CSIR, SRF, Calcutta University, 2017

Research interests:

- Automated lung disease detection
- Biomedical signal processing

List of publications:

- [1] **S.Sarkar**, S.Bhattacharjee, P.Bhattacharyya, S.Pal, "Differentiation of COPD from Normal Population using ECG Derived Respiration: a Pilot Observation," *The Pulmo-Face*, vol. XVI (1), pp. 12-18, 2016.
- [2] **S.Sarkar**, S.Bhattacharjee, S.Pal, "Extraction of Respiration Signal from ECG for Respiratory Rate Estimation", Proc. of Michael Faraday IET International Summit: MFIS-2015, Kolkata, India, vol. 2, pp. 336-40, 2015.
- [3] **S.Sarkar**, S.Pal, S.Bhattacharjee & P.Bhattacharyya, "Characterization of Obstructive Lung Disease from Respiration Signal", *Proc. of Int. Conf. on Advancement of Computer Communication & Electrical Technology*, pp. 143-147, 2016.
- [4] **S.Sarkar**, P.Bhattacharyya, S.Pal, "A comparative study between COPD and ILD using ECG derived respiration," 14th All India Update in Pulmonary Medicine, Pulmocon-2016, Kolkata, India.
- [5] **S.Sarkar**, S.Pal, P.Bhattacharyya, "A Comparative Analysis between EDR and Respiration Signal Pilot Study with Normal Subjects," AMSE International Conference, 2017.

Seminar attended:

- **Summer Symposium on Airway Inflammation, Hyper-reactivity and Asthma**, Organized by Institute of Pulmocare and Research, Kolkata, **29th May, 2016** at Hotel Sonnet.