

Dr.Dabbu Suman

1. Name and Designation

Dr.Dabbu Suman, Associate Professor, Department of Bio-Medical Engineering, University College of Engineering(A), Osmania University, Hyderabad-Telangana State.500007.

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3. Institution : Associate Professor in the Department of Biomedical Engineering, University College of Engineering, Osmania University, Hyderabad, Telangana, 500007.

4. Academic Qualification (Undergraduate Onwards)

	Degree	Year	Subject	University/Institution
1.	Bachelor of Engineering	2001-2005	Bio-medical engineering	University college of Engineering, Osmania University
2.	Master of Engineering	2009-2011	Bio-medical electronics	University college of Engineering, Osmania University
3.	Ph. D	2019	Biomedical Engineering	University college of Engineering, Osmania University

5. Ph.D. thesis title, Guide's Name, Institute/Organization/University, Year of Award.

Ph.D. thesis Title: Development and evaluation of driver drowsiness detection techniques through oculomotor system modelling and EEG signal processing.

Guide: Prof.M.Malini, Head, Department of BME, Osmania University, Hyderabad. Year of Award: Sept, 2019.

6. Work experience (in chronological order).

S.No.	Positions held	Name of the Institute	From	To
1	Assistant Professor	University college of Engineering, Osmania University	11-06-2007	10-06-2012
2	Assistant Professor(Sr.Scale)	University college of Engineering, Osmania University	11-06-2012	10-06-2017
3	Assistant Professor(Sn.Grade)	University college of Engineering, Osmania University	11-06-2017	10-06-2020

4	Associate Professor	University college of Engineering, Osmania University	11-06-2020	Till date
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7. Professional Recognition/ Award/ Prize/ Certificate, Fellowship received by the applicant.

S.No	Name of Award	Awarding Agency	Year
1	Best Paper Award	IFIP international conference on Security and Data Privacy (ICS DP2022)	14-15 th Dec 2022.
2	Best Paper Award	IEEE India Conference (INDICON), New Delhi,	2015
3	Best Paper Award	International accreditation council of quality education and research (IACQER)	Dec, 2011

8. Publications (List of papers published in SCI Journals, in year wise descending order).

S.No.	Author(s)	Title	Name of Journal	Volume	Page	Year
1	S.Bhaskar, Narmada Vallakeerthi, A. Sanjeev, M. Kavitha, D. Suman, and P.Muralidhar Reddy	A study on the development and validation of RP-HPLC method for the simultaneous estimation of Emtricitabine, Tenofovir Disoproxil Fumarate, and Efavirenz in both bulk and pharmaceutical formulations.	Eur. Chem. Bull.,	12(Special Issue 4),	886-900	2023
2	Yashwanth vyza, dabbu suman, Malini Mudigonda	Drowsiness Detection by the Systems Dynamic Approach of Oculomotor Systems	International Journal of Biomedical and Clinical Engineering (IJBCE)	11	1-27	2022
3	Yashwanth vyza, dabbu suman, Malini Mudigonda	A Spectral Power based Index using Wavelet Analysis of EEG for Drowsiness Detection	International Journal of Computer Applications (0975 - 8887) Volume, January 2022	183 - No.46	1-8	2022
4	Dabbu Suman, Ram Reddy B& Bhanu Prasad Marri	Cardio respiratory coupling: A potential biomarker for the early detection of respiratory distress in COVID-19 affected patients.	International Journal of Scientific & Engineering Research	12, No.12	240-246	2021

5	Tadesse Waktola Gamessa, Dabbu Suman	Non-Invasive Blood Glucose Monitoring using Visible Laser Light.	Research Journal of Pharmacy and Technology	Vol 12, ISSN 0974-360X	831-840	2019
6	B Dhananjay, M Srinivas, D Suman, M Malini, J Sivaraman	Fractal Dimension of fundoscopic Retinal Images for Diagnosing of Diabetic Retinopathy	International Conference on E-Business and Telecommunications,	Springer, Cham	23-30	2019
7	Tadesse Waktola Gamessa, Dabbu Suman, Zerihun Ketema Tadesse,	Blood glucose monitoring techniques: recent advances, challenges and future perspectives	International Journal of Advanced Technology and Engineering Exploration	Vol 5. ISSN (Online): 2394-7454	335-344	2018
8	Banibrata Mukherjee Vineeth Muppalla, N Sri Sai Krishna Suraj, D.Suman	Implementation of an Arrhythmia Detection Scheme with Cellular Based Alert Framework,	2017 IEEE Calcutta Conference (CALCON)	IEEE Explore	438-442,	2017
9	Suman, D., Malini, M. and V.Y.S.Reddy	ANN based Joint Time and frequency analysis of EEG for detection of driver drowsiness'	Defence Life Science Journal	Vol.2, No.4	pp.406-415	2017
10	Suman, D Malini, M. And Ramreddy, B.	Joint time–frequency analysis of EEG for the drowsiness detection: a study of cognitive behavioral patterns of the brain',	Int. J. Vehicle Safety,	Vol. 9, No. 3,	pp.262–277.	2017
11	Vineeth Muppalla, N Sri Sai Krishna Suraj, Vyza Yashwanth Sai Reddy, D Suman	Performance evaluation of different denoising techniques for physiological signals	14th IEEE India Council International Conference (INDICON)	IEEE Xlore	pp.1-6	2017
12	D. Suman, M. Malini and S. Anchuri	EOG based vigilance monitoring system	2015 Annual IEEE India Conference	IEEE Xlore	pp.1-6	2015

			(INDICON) New Delhi			
13	D.Suman, Dr.M.Malini, Mr.ReddyVamsi, Mr.Nikhil Ch	Smart Goggles for the Drowsiness detection to avoid Vehicle accidents	Journal of the Instrument Society of India	ISSN 0970- 9983	Vol.46, No.3	2016
14	D.Suman, Dr.M.Malini M.VenkateswaraR ao	A GUI based tumor detection technique from the MRI in view of the pre-treatment planning of cancer surgery	International Journal on Advances in Science & Technology, Science Publications	ISSN 2348- 5426,	pp.57-60	2014
15	D.Suman, B.Guruprakash, M.Venkateswara Rao	Effect of ancient techniques of yoga on physiological parameters of the patients suffering from asthma and hypertension	International Journal of Engineering Science & Advanced Technology (IJESAT)	ISSN 2250- 3676 Vol- 2,issue- 4	pp.846 – 850	2011

9. Books/Reports/Chapters/General articles etc.

S.No	Title	Author's Name	Publisher	Year of Publication
1	Drowsiness detection by the dynamics of oculomotor system	Dabbu Suman Mudigonda Malini Ram Reddy B	LAP LAMBERT Academic Publishing, November, 2022.	2022
2	Blood glucose monitoring techniques: Recent advances, challenges and future perspectives	Tadesse Waktola Gamessa , Dabbu Suman, Zerihun Ketema Tadesse .	LAP LAMBERT Academic Publishing (March 7, 2019)	2019

10. Research & Development Projects

S.no	Project title	Funding Agency	Project worth in Rs	Duration
1	Design and development of a Radio frequency generator for hyperthermia therapy to treat cancerous cells by using biocompatible nano-ferrites.	SERB-DST-TARE	18,30,000.00	15/02/2023-14/2/2026
2	Smart Shoes: An advanced aid for the freezing gait of the Parkinson's Patients	SERB-DST-SCP	17,97,400.00	09/12/2022-08/12/2025
3	A study of Sub thalamic Local Field Potentials of Parkinson's patients under Deep Brain Stimulation therapy for finding the potential biomarkers	TSCOST	400000.00	April 2022-23
4	A Holistic approach of yoga for the treatment of Yoga and Hypertension- A clinical investigation on the autonomic control system	DST-PURSE	400000.00	2017-19
5	A fuzzy expert system for the detection of drowsiness from the EOG signal analysis	UGC-MRP	500000.00	2017-19
6	Mitigation of drowsiness from the blink characteristics of EOG signal	Seed grant of TEQIP-II, Govt.of India	100000.00	2015-16
7	Design and development of OT table control board and remote	Consultancy for THUMBAY hospitals, Hyderabad.	40000.00	June-2016-June, 2017
8	Calibration of medical equipment	Consultancy for THUMBAY hospitals, Hyderabad.	160000.00	Feb-2019
9	Calibration of medical equipment	Consultancy for Lotus hospitals, Hyderabad.	150000.00	Feb, 2018

Other Information

- Secured 1st rank in the All India level DIPP competitive examination conducted by CSIR and DIPP (Department of Industrial Policy and

Promotion, Govt.of India) and selected as an “**Examiner of Patent and Design**” during January 2011 at Indian Patent Office.

- Organized a National workshop on “Convergence of Nano-Bio-Info-Cogno for Biomedical innovations” which was inaugurated by **BharatRatna, His Excellency, Dr.APJ.Abdul Kalam, Former President of India**, on 1st, August, 2014, at Department of Biomedical engineering.