

List of Publications

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TITLE	YEAR
A Simple Robust Image Processing Algorithm for Analysis of Static Foot Pressure Intensity Image to Detect Foot Risk Areas in Diabetic Patients HS Nair, N Thomas, R Periyasamy Advances in Biomedical Engineering and Technology, 21-28	2020
Multispectral NIRS System Design to Analyze Hemoglobin Concentration on Plantar Foot Surface RR Shivwanshi, NPG Seshadri, R Periyasamy Advances in Biomedical Engineering and Technology, 401-412	2020
Development of a non-invasive non-contact optical device for estimating TcB in Neonates RP K.Vignesh Kumar 2020 Sixth International Conference on Bio Signals, Images, and ...	2020
Design of a Standardised Semi-Automated Sensory Device for Two Point Discrimination testing in the foot sole RP M.S. Ganeshmurthy 2020 Sixth International Conference on Bio Signals, Images, and ...	2020
Design of Multi-wavelength Near Infrared Probe to Detect Risk Areas in Diabetic Foot NPG Seshadri, R Periyasamy Biotechnological Applications in Human Health, 1-9	2020
Study of skin flow motion pattern using photoplethysmogram AK Neelamshobha Nirala, R Periyasamy Int. J. Advanced Intelligence Paradigms 16 (3-4)	2020
Respiratory sound based classification of chronic obstructive pulmonary disease: A risk stratification approach in machine learning paradigm NS Haider, BK Singh, R Periyasamy, AK Behera Journal of medical systems 43 (8), 1-13	2019
Nonlinear sharpening of MR images using a locally adaptive sharpness gain and a noise reduction parameter J Joseph, R Periyasamy Pattern Analysis and Applications 22 (1), 273-283	2019
A Study on Development of a Non Invasive Optical based Instrument to estimate the Bilirubin Concentration in the Blood Serum VK Kanamail, R Periyasamy 2019 TEQIP III Sponsored International Conference on Microwave Integrated ...	2019

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Electroencephalography and near-infrared spectroscopy-based hybrid biomarker for brain imaging R Prasad, NPG Seshadri, R Periyasamy, S Miller, A Bit, K Mitra Bioelectronics and Medical Devices, 145-181	2019
A polynomial model for the adaptive computation of threshold of gradient modulus in 2D anisotropic diffusion filter J Joseph, R Periyasamy Optik 157, 841-853	2018
Potential of photoplethysmogram for the detection of calcification and stenosis in lower limb AK Neelamshobha Nirala, R. Periyasamy International Journal of Bioinformatics Research and Applications	2018
Modified limb lead ECG system effects on electrocardiographic wave amplitudes and frontal plane axis in sinus rhythm subjects S Jayaraman, V Sangareddi, R Periyasamy, J Joseph, RM Shanmugam Anatolian journal of cardiology 17 (1), 46	2017
An objective method to identify optimum clip-limit and histogram specification of contrast limited adaptive histogram equalization for MR images J Joseph, J Sivaraman, R Periyasamy, VR Simi Biocybernetics and Biomedical Engineering 37 (3), 489-497	2017
An analytical method for the adaptive computation of threshold of gradient modulus in 2D anisotropic diffusion filter J Joseph, R Periyasamy Biocybernetics and Biomedical Engineering 37 (1), 1-10	2017
An investigation on the statistical significance of spectral signatures of lung sounds NS Haider, J Joseph Biomedical Research	2017
Skin reflectometry technique for measurement of bilirubin concentration to detect jaundice A Chandra, NPG Seshadri, R Periyasamy Proceedings of the 2017 International Conference on Biomedical Engineering ...	2017
Noise based computation of decay control parameter in nonlocal means filter for MRI restoration J Joseph, J Sivaraman, R Periyasamy, VR Simi Journal of Medical Imaging and Health Informatics 6 (4), 1027-1037	2016
A study on non-invasive blood glucose estimation—an approach using capacitance measurement technique R Periyasamy, S Anand 2016 International Conference on Signal Processing, Communication, Power and ...	2016
Handheld isobaric aesthesiometer for measuring two-point discrimination M Manivannan, R Periyasamy, D Suresh ICoRD'15—Research into Design Across Boundaries Volume 2, 675-685	2015
Biomechanical Properties of the Foot Sole in Diabetic Mellitus Patients: A Preliminary Study to Understand Ulcer Formation VB Narayanamurthy, R Poddar, R Periyasamy International Journal of Biomedical and Clinical Engineering (IJBCE) 3 (1), 1	2014

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