Name   : **Dr.R.Periyasamy**
Designation   : Assistant Professor
Office Address : Department of Instrumentation and Control Engineering, NIT Tiruchirappalli
Telephone : 0431-2503351
Mobile (Optional): 9179826937

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
R Periyasamy, Sonal Atreya, Sneh Anand	Foot pressure distribution differences between young adult and older subject: a biomechanical parameters analysis	International Journal of Biomedical Engineering and Technology	13(3)	201-217	2013	
R Periyasamy, S Anand, AC Ammini	Prevalence of standing plantar pressure distribution variation in north Asian Indian patients with diabetes mellitus: A study to understand ulcer formation	Journal of Engineering in Medicine	227(2)	181-189	2013	1.005
R Periyasamy, Sneh Anand	The effect of foot arch on plantar pressure distribution during standing	Journal of medical engineering & technology	37(5)	342-347	2013	
VB Narayanamurthy, Richa Poddar, **R Periyasamy**	Biomechanical Properties of the Foot Sole in Diabetic Mellitus Patients: A Preliminary Study to Understand Ulcer Formation	International Journal of Biomedical and Clinical Engineering (IJBCE)	3(1)	1-17	2014	
Mrithunjay Ratthore, **R. Periyasamy**, D. K. Sharma, Manisha Sinha, Sachin Pandey, Somitra Trivedi	Analysis of the Effect of Yoga Posture on the Trunk Muscle Activities and its significance	Indian Journal of Clinical Anatomy and Physiology	2(2)	74-80	2015	
Justin Joseph, J Sivaraman, **R Periyasamy**, VR Simi	Noise based computation of decay control parameter in nonlocal means filter for MRI restoration	Journal of Medical Imaging and Health Informatics	6(4)	1027-1037	2016	0.621
Sivaraman Jayaraman, Venkatesan Sangareddi, **R Periyasamy**, Justin	Modified limb lead ECG system effects on electrocardiographic wave amplitudes and frontal plane axis in	Anatolian journal of cardiology	17(1)	46	2017	1.19

Joseph, Ravi Marimuthu Shanmugam	sinus rhythm subjects					
Justin Joseph, **R Periyasamy**	An analytical method for the adaptive computation of threshold of gradient modulus in 2D anisotropic diffusion filter	Biocybernetics and Biomedical Engineering	37(1)	1-10	2017	1.031
Justin Joseph, J Sivaraman, **R Periyasamy**, VR Simi	An objective method to identify optimum clip-limit and histogram specification of contrast limited adaptive histogram equalization for MR images	Biocybernetics and Biomedical Engineering	37(3)	489-497	2017	1.031
Nishi Shahnaj Haider, Justin Joseph, **R Periyasamy**	An investigation on the statistical significance of spectral signatures of lung sounds	Biomedical Research	28(6)	2801-2810	2017	0.219
Justin Joseph, Sivaraman Jayaraman, **Rajadurai Periyasamy**, Simi V Renuka	An edge preservation index for evaluating nonlinear spatial restoration in MR images	Current Medical Imaging Reviews	13(1)	58-65	2017	0.308
Nishi Shahnaj Haider, **R Periyasamy**	Correlation of imaging findings with pulmonary function parameters in patients with emphysema	Biomedical Research			2017	Accepted
Justin Joseph, **R Periyasamy**	A fully customized enhancement scheme for controlling brightness error and contrast in magnetic resonance images	Biomedical Signal Processing and Control	39	271-283	2018	2.214
Justin Joseph, **R Periyasamy**	A polynomial model for the adaptive computation of threshold of gradient modulus in 2D anisotropic diffusion filter	Optik-International Journal for Light and Electron Optics	157	841-853	2018	0.835
Justin Joseph, **R Periyasamy**	An image driven bilateral filter with adaptive range and spatial parameters for denoising Magnetic Resonance Images	Computers & Electrical Engineering			2018	1.57 (In Press)
Awanish Kumar, Neelamshobha Nirala , **R. Periyasamy**	Non invasive diagnostic methods for better screening of peripheral arterial disease	Annals of Vascular Surgery			2018	1.45 (In Press)

Awanish Kumar ,Neelamshobha Nirala, **R. Periyasamy**	Potential of photoplethysmogram for the detection of calcification and stenosis in lower limb	International Journal of Bioinformatics Research and Applications			2018	In Press
Awanish Kumar ,Neelamshobha Nirala, **R. Periyasamy**	Study of skin flow motion pattern using photoplethysmogram	Int. J. Advanced Intelligence Paradigms			2018	In Press
Justin Joseph, **R Periyasamy**	Nonlinear sharpening of MR images using a locally adaptive sharpness gain and a noise reduction parameter	Pattern Analysis and Applications	22 (1),	273-283	2019	1.4
N Nirala, **R Periyasamy**, BK Singh, A Kumar	Detection of type-2 diabetes using characteristics of toe photoplethysmogram by applying support vector machine	Biocybernetics and Biomedical Engineering	39 (1),	38-51	2019	1.031
NS Haider, BK Singh, **R Periyasamy**, AK Behera	Respiratory Sound Based Classification of Chronic Obstructive Pulmonary Disease: a Risk Stratification Approach in Machine Learning Paradigm	Journal of medical systems	43 (8),	255	2019	2.41