



P.S.R. ENGINEERING COLLEGE

An Autonomous Institution, Affiliated to Anna University and Approved by AICTE
Accredited by NBA & NAAC (A+ Grade) and listed under 2(F) & 12(B) of the UGC Act, 1956
Appayanaickenpatti, Sivakasi – 626 140



Research Profile

Name of the faculty : Dr. S. Manikandan
Designation : Professor
Department : Electronics and Communication Engineering
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Education:

Degree	Programme and Specialization	Year of Passing	Name of the Institute and University
B.E.,	Electronics and Instrumentation Engineering	1999	National Engineering College, Kovilpatti. Manonmaniam Sundaranar University, Tirunelveli.
M.E.,	Medical Electronics	2006	College of Engineering, Guindy (CEG), Anna University, Chennai.
Ph.D.,	Information and Communication	2015	Anna university, Chennai

Journal publications:

1. V. Padma Supriya, **S. Manikandan**, T. Ramakrishnan and P. Radha, 'An Efficient Approach for the Classification of Medicinal Leaves using BFO and FVRM', International Journal of Advanced Networking and Applications, Volume:10, Pages 4105-4122, June 2019. (ISSN: 0975-0290).
2. P.X. Nancy Grace, **S. Manikandan** and M. Suresh, 'Control Moment Gyroscope's Gimbal Rate Control Using Permanent Magnet Synchronous Motor Control Techniques', International journal of Applied Engineering Research, Vol.10, No. 62, Pages 19893-19898, August 2015. (ISSN 0973-4562).
3. T. N. Amarjothi, **S. Manikandan**, K. Muthukkuti, 'Liver tumor segmentation using single level set method with shape and intensity prior', International journal of Applied Engineering Research, Vol.10, No. 62, Pages 15717-15721, August 2015. (ISSN 0973-4562).

4. **S. Manikandan**, K. Ramar, M. WilljuiceIruthayarajan and K.G. Srinivasagan, ‘Multilevel thresholding for segmentation of medial brain images using real coded genetic algorithm’, Measurement, Volume 47, Pages 558-568, 2014, ISSN 0263-2241. <https://doi.org/10.1016/j.measurement.2013.09.031>.
5. N. MohamedAthil, **S. Manikandan**, J. BabithaThangamalar and V. Soundaravalli ,” Monitoring and Analysis of Aquatic Intake in Instructive Bodies”, International Research Journal of Engineering and Technology (IRJET), ISSN 2395-0072 Volume: 04 Issue: 03 March 2017.

Conference Publications:

1. V. Padma Supriya and **S. Manikandan**, ‘Classification of Medicinal Leaves using FRVM with BFO for Feature selection’ International Conference on Emerging Trends in Engineering and Technology, December 2016.
2. G. Perinkumar and **S. Manikandan**, ‘Design of Controller for Level process in Conical Tank’, IEEE International Conference on Computational Systems in Engineering and Technology (ICCSET) 2013 Pages 115-119, March 2014.
3. A. Sheeba and **S. Manikandan**, ‘Image Segmentation Using Bi-level Thresholding’, International Conference on Electronics and Communication Systems (ICECS-2014), February 2014, 10.1109/ECS.2014.6892783.
4. S.P. Uma and **S. Manikandan**, ‘Control Technique for Variable Speed Wind Turbine using PI Controller’, IEEE International Conference ON Emerging Trends in Computing, Communication and Nanotechnology (ICE-CCN), March 2013, 10.1109/ICE-CCN.2013.6528578.
5. **S. Manikandan** and K. Ramar, ‘Advanced Segmentation Methods for Medical Image: A Survey’, National Conference on Image Processing and Networking (NACIPAN ’10), March 2010.
6. **S. Manikandan** and Ravindran, ‘3D Reconstruction of Echo Cardiac Images’ National Conference on Advances in Medical Electronics, March 2006.

Publication citation details

Items	(Google Scholar)	Scopus
No. of Documents	9	5
Total Citation	186	143
h- index	3	3
i10 – index	2	1

Guided Sponsored Projects and Consultancy:

Student Project Title	Automatic Lifting System for Physically Challenged people to board the Indian Trains
Award	Innovative Student Projects Award 2016, Indian National Academy of Engineering (INAE), New Delhi
Amount	Rs. 40,000/-
Student Project Title	Automated speed control for vehicles in accidental zones and speed limit areas using RF transmission
Funded by	Tamil Nadu State Council for science and technology (TNSCST), Chennai – 620 005
Project Guide	Mr. S. Manikandan
Amount	Rs. 9,000/-
Year	2012 – 2013.
Student Project Title	Wet Grinder Automation
Funded by	Alumni Association
Amount	Rs. 9,600/-
Year	2015 – 2016.
Student Project Title	Autonomous Unmanned Aerial Vehicle for Fire Fighting
Funded by	Alumni Association
Amount	Rs. 10,000/-
Year	2017 – 2018.
Consultancy	Dust concentration measurement. Apex Design Centre, Coimbatore.

Details of Funded Project Proposal Submitted:

Investigators	Title of Project	Submitted Organization	Amount (Rs in Laks) and Date
Dr. R. Muniraj Dr. S. Manikandan Mr. S. Ramaraj Mr. R. Ganesh	Modernization of Electric Vehicles based on Solid Polymer Electrolytes Energy Storage System	IRHPA, Science and Engineering Research Board, New Delhi.	45.243 and 21/07/2021

Recognition/Award:

Research Supervisor Recognition Number for Anna University : 2740155

Percentile of score secured in GATE 2004 Examination : 94.53