



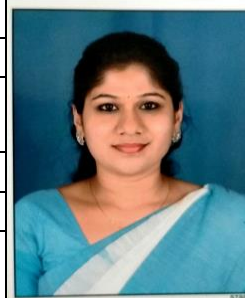
# P.E.S. College of Engineering, Mandya - 571401

(An Autonomous Institution, affiliated to VTU, Belagavi)

## Faculty Profile

### General

Name	Dr. Radhika M N
Designation,	Assistant Professor
Department & Affiliated Institution	Department of Electrical and Electronics, P.E.S College of Engineering, Mandya – 571 401
Research Area	Estimation, Tracking and Nonlinear Filtering
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### Academic Profile

#### Educational Qualifications

Degree	College	University	Year of Passing	% ge	Class
Ph. D	Department of Studies in Electronics	University of Mysore, Mysuru	2021	-	-
M. Tech.,	VTU Extension centre, UTL Technologies Limited	Visveswaraya Technological University	2011	CGPA 7.53	I - Class
B. E.,	Coorg Institute of Technology	Visveswaraya Technological University	2008	68	I - Class

#### Professional Experience

Organization and Department	Designation	Period	Total Experience
BGS Institute of Technology, B G Nagar	Assistant Professor	01-08-2011 to 01-06-2012	9 Months
P.E.S. College of Engineering, Mandya	Assistant Professor	10-08-2012 to 22-08-2015	3 Years
Cauvery Institute of Technology, Mandya	Assistant Professor	22-08-2015 to 31-12-2019	5 Years
P.E.S. College of Engineering, Mandya	Assistant Professor	29-9-2020 to till date	3 years

### Reports on Academic and Research Activities

#### Academic Activities

Teaching Records (Details of courses taught)	<p><u>Undergraduate:</u> Engineering Electromagnetics, Control Systems, Network Analysis, Information Theory and Coding, Principles of Communication System, Microprocessor, Real Time Systems, Digital Switching System, Fundamentals of Electronics.</p> <p><u>Post Graduate (M. Tech):</u> Real time Operating System, Advances in VLSI Design,</p>
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#### Research Publications in Refereed Journals and Conferences/Symposia

Number of Publications in	National	International
Journals	02	03
Conferences/Symposia	01	04

## LIST OF PUBLICATIONS

1. M. N. Radhika, S. S. Parthasarathy, and M. Mallick, "Numerical Simulation of a Highly Maneuvering Target in 2D Using the Bayesian Framework," International Journal of Scientific & Technology Research, vol. 9, no. 2, pp. 3262-3269, Feb. 2020.
2. M. N. Radhika, S. S. Parthasarathy, M. Mallick, "IMM-CKF and Posterior Cramér-Rao Lower Bound for a Highly Maneuvering Target," Solid State Technology, vol.63 Issue:4, Aug. 2020.
3. M. N. Radhika, Mahendra Mallick, "An Overview on IMM Filtering Algorithms for a Highly Maneuvering Target using Bayesian Approach" International Journal of Advanced Technology and Engineering Exploration, (to be submitted)
4. M. N. Radhika, Mahendra Mallick, "IMM-based Nonlinear Filters for a Highly Maneuvering Target in 3D", Sensors(to be submitted)
5. M. N. Radhika, S. S. Parthasarathy, and Saroj Kumar, "Estimation and Guidance for Maneuvering Targets," 2015 International Conference on Emerging Research in Electronics, Computer Science and Technology (ICERECT), Mandya.
6. Mahendra Mallick, Radhika M N, Zhanshen Duan "IMM-CKF for a Highly Maneuvering Target Using Converted Measurements", 2021 ICCAIS, Xi'an, China, Oct. 16.
7. Radhika M. N, Mahendra Mallick, Xiaoqing Tian, Jing Liu "Performance Evaluation of IMM-based Nonlinear Filters for a Highly Maneuvering Aircraft", 2021 ICCAIS, Xi'an, China, Oct. 16.
8. Mahendra Mallick, Radhika M. N. and Zhansheng Duan, "IMM-CKF for a Highly Maneuvering Target Using Converted Measurements", 2021 ICCAIS, Xi'an, China, Oct. 16.
9. Mahendra Mallick, Xiaoqing Tian, Radhika M. N. and Zhansheng Duan, "Revisiting the Bearings-only Filtering Problem", 2022 ICCAIS, Hanoi.

### **Text Books:**

1. Dr. Radhika M N et al., Text book on "Digital Image processing" ISBN: 978-93-5757-067-1, First Edition 2023, SIPH Publisher.