

G.Pradeep Kumar M.E.,MBA.,(Ph.D)

Assistant Professor & ECE

Velammal College of Engineering and Technology, Madurai

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Blog Address: <http://pradeepgkumar34.blogspot.com/>**Educational Qualification:**

Class / Degree	Institution	University / Board	Year of Passing	Percentage / CGPA
Ph.D	Anna University	Anna University	Pursuing	---
M.E (CS)	Sudharsan Engineering College	Anna University, Chennai	2012	7.74
B.E-(ECE)	M.Kumarasamy College of Engineering & Tech.	Anna University, Chennai	2006	69%

Experience in Years: 13 Years 2 months**Employment History:**

Sl.No.	College / Company	Designation	Nature of Job	Period
1.	Velammal College of Engineering & Technology	Assistant Professor	Research & Teaching Regular	01.06.12 – Till date
2.	Velammal College of Engineering & Technology	Teaching Assistant	Teaching –Part time during 2011-12	01.06.09 – 31.05.12
3.	HCL Technologies	Network Engineer	Network support	01.03.07 – 29.02.08

Interested Research Areas:

Unmanned Systems, Networking, Underwater Imaging and 3D Modelling

Scholarships and Awards received:

Received best paper award in the International conference on Automation & Computing technologies during 2018 for the titled, “*Development of Efficient Agricultural Device to Evaluate the Soil Parameters For Precision Agriculture*”

Books Published :

Published a book chapter on “*Development of Efficient Swarm Intelligence Algorithm for Simulating 2d Orthomosaic for Terrain Mapping Using Cooperative UAVs* in Elsevier - **The Cognitive Approach in Cloud Computing and Internet of Things Technologies for Surveillance Tracking Systems** during 2019

Funded Research Projects:

Funding Agency	Scheme	Title	Sanctioned amount	Year	PI / CO PI
DST	ICPS	“Image Processing, Enhancement 2D Mosaicing and 3D construction of Submerged Features/Objects for digital reconstruction of Poompuhar (Puhar-UW Photo)”	Rs. 30 Lakhs	2019-2021	Co - PI
Avian Aerospace	Unmanned systems	Design of Quadcopter for wireless data transmission during disaster management	Rs.1.5 lakh	2015	PI
Avian Aerospace	Unmanned systems	Design of Remotely operated vehicle for underwater surveillance	Rs.1.5 lakh	2015	Co - PI

Patent rights received: NA

Publications Details:

1. Patent Journal Publication Details: NA

2. International Journal Publication Details:

Sl.No.	Name of the Journal / Conference	Title	Volume / Issue No. / ISSN No. / Page No.	Year
1.	International Journal of Research in Applied Science & Engineering Technology	Deep Learning based Emotion Analysis and Recognition for Movie Review	Vol. 10 / Issue VI/ ISSN : 2321 9653	2022
2.	International Journal of Engineering Research & Technology	Development of Auto Stabilization Algorithm for UAV using Gyro Sensor	Vol.1	2017
3.	International Journal of Engineering Research & Technology	Airborne based 3D Photogrammetry for measurement of Historical objects using SFM algorithm	Vol.1	2017
4.	International Journal of Research in Advanced Technology	Design of Sovereign Unmanned Ground Vehicle for Man free Agriculture based on Hue Navigation Algorithm Using raspberry pi2	Vol.1 Issue:7 July 2016	2016
5.	International Journal of Advanced Research in Computer and Communication Engineering	User Friendly Operation of Remotely Operated Underwater Vehicle Using Android Application	Vol. 5, Issue 6, ISSN (Online) 2278-1021	2016
6.	International Journal of Advanced Research in Computer & Communication Engineering	Rugged Autonomous Unmanned Ground Vehicle for Precision Agriculture Working Based on Color Navigation Algorithm using Raspberry Pi2	Vol. 5, Issue 5, ISSN (Online) 2278-1021	2016
7.	International Journal of Applied Engineering Research	Efficient Detection of Sinkhole Attack in Wireless Sensor Network Using Parameters Estimation Techniques	Volume No. 10 - ISSN 0973-4562 Page No. 1977-1982	2015

Sl.No.	Name of the Journal / Conference	Title	Volume / Issue No. / ISSN No. / Page No.	Year
8.	International Journal of Information sciences and Techniques	Enhanced Green Firewall for Efficient Detection and Prevention of Mobile Intruder Using Grey listing Method	Volume:4, Issue:3, Page No,99-106	2014
9.	International Journal of Information sciences and Techniques	Efficient Intrusion and Prevention of Black Hole Attack by Patch Analysis in Wireless Sensor Networks	Volume:4, Issue:3	2014
10.	International Journal of Emerging Trends in Electrical and Electronics	Efficient Intrusion Detection in Wireless Sensor Networks using Peer Interaction Assessment Algorithm	Volume no. 1, Issue: 2	2013
11.	The Journal of International Forum for Researchers, Students and Academicians	Stress Management Techniques	--	2011

4. International Conference Presentation Details:

Sl.No.	Name of the International / National Conference	Title	Volume / Issue No. / Page No.	Year
1.	International Virtual Conference on Antenna Innovations, 5G Communications and Network Technologies	Simulation of visual based Indoor positioning of UAV using ROS and Gazebo simulator For Mapping and Surveillance Applications	Page 75-81	2020
2.	International Conference on Signal Processing and Communication Systems	Modelling, Path planning and Simulation of a Quadrotor	-	2020
3.	International Conference on Research Advancements & Challenges in Engineering Sciences	Novel Algorithm for Object detection and Classification in Underwater SONAR images	-	2020
4.	International Conference on Research Advancements & Challenges in Engineering Sciences	Automation of screening process	-	2020
5.	International Conference on Artificial Intelligence, Smart Grid and Smart City Applications at PSG college of Technology	Development of Efficient Swarm Intelligence Algorithm for Simulating 2D Orthomosaic for terrain mapping using Cooperative UAVs	-	2019
6.	International Conference on Emerging trends in Engineering & Technology	Development of Efficient Algorithm for Simulation and Performance Analysis of Quadcopter in normal and Obstacle filled Environment	-	2019
7.	International Conference on Emerging trends in Engineering & Technology	Development & Implementation of Adaptive algorithm for real time autonomous UAV for emergency transportation	-	2019
8.	International Conference on Automation & Computing technologies ICACT-18	Received best paper award Development of Efficient Agricultural Device to Evaluate the Soil Parameters For Precision Agriculture	ECX143	2018

Sl.No.	Name of the International / National Conference	Title	Volume / Issue No. / Page No.	Year
9.	International Conference on Automation & Computing technologies ICACT-18	Simulation of Cooperative UAVs using Autopilot algorithm for 2D orthomosaicing	ECX144	2018
10.	International conference on Design and Application of Structures, Drives, Communicational and Computing Systems	Bio sampling of air pollution using Unmanned aerial vehicle	--	2015
11.	International conference on Design and Application of Structures, Drives, Communicational and Computing Systems	FINS Control Algorithm for Obstacle avoidance in Robotic FISH using Ultrasonic Sensor	ISBN NO: 978-93-83051-46-5	2014
12.	International conference on Advanced engineering and Technology	Efficient intrusion detection in wireless sensor networks using peer interaction and quantization algorithm	--	2013
13.	International Conference on Recent Advances in Computer Scineces	Energy Efficient Wireless Network based on QoS enhanced using Mistrial approach	Page No. 599-603	2012

4. National Conference Presentation Details:

Sl.No.	Name of the International / National Conference	Title	Volume / Issue No. / Page No.	Year
1.	Research In Electronics Engineering And Communication Techniques – REACT15	Design of Efficient Unmanned Ground Vehicle for Mine Monitoring	Page No. 70-74	2015
2.	Research In Electronics Engineering And Communication Techniques – REACT15	Design of Quadcopter for Wireless Data Transmission during Disaster Management	Page No. 80-85	2015
3.	Research In Electronics Engineering And Communication Techniques – REACT15	Remotely Operated Vehicle for Underwater surveillance	--	2015
4.	National Conference on Emerging and Latest Evolution in Information Technology	Efficient Intrusion Detection Systems	--	2011
5.	National Conference on Emerging and Latest Evolution in IT	Guilty Knowledge Detection by Brain Fingerprinting	--	2011