



Dr. Uma S V

Professor

Experience (Teaching and Industry)

RNSIT (2002- till date)
Honeywell (2001-2002)
BMSECE (2000-2001)
GVIT (1997-2000)

Qualifications

B.E. in ECE from Malnad College of Engg.,Hassan,
Mysore University
M.Tech. in DC from BMSCE, VTU, Belgaum
Ph.D from Bangalore University

Specialization (Academics)

Analog, Digital and Wireless Communication
Computer Networks
Cryptography
Signal Processing, Computer Vision and Image processing
UAVs

Specialization (Research)

Wired/Wireless Networks
Image and Video processing & Computer Vision

Publications

1. [UAV and obstacle sensing techniques–a perspective](https://www.emerald.com/insight/content/doi/10.1108/IJIUS-11-2017-0013/full/html), International Journal of Intelligent Unmanned Systems, 2018, <https://www.emerald.com/insight/content/doi/10.1108/IJIUS-11-2017-0013/full/html>
2. [Obstacle avoidance and distance measurement for unmanned aerial vehicles using monocular vision](#), International Journal of Electrical and Computer Engineering 9 (5), 3504,2019
3. [Distributed denial of service: Attack techniques and mitigation](#), 2017 International Conference on Circuits, Controls, and Communications ...
4. [Grape leaf segmentation for disease identification through adaptive Snake algorithm model](#), Multimedia Tools and Applications 80 (6), 8861-8879,2021
5. [Adaptive machine learning approach for grape leaf segmentation](#), 2019 International Conference on Smart Systems and Inventive Technology
6. [Obstacle Detection in Drones Using Computer Vision Algorithm](#), International Symposium on Signal Processing and Intelligent Recognition, 2018
7. [Performance Examination of GPSR and AODV Routing Protocols in MANETS](#), International Journal of Innovative Technology and Exploring Engineering,2019
8. [Congestion Control by Heuristics in High-Speed Networks Using ANN](#), Emerging Research in Electronics, Computer Science and Technology, 323-333
9. [Drone to Obstacle Distance Estimation Using YOLO V3 Network and Mathematical Principles](#) Journal of Physics: Conference Series 2161 (1), 012022
10. [Custom Based Obstacle Detection Using Yolo v3 for Low Flying Drones](#), 2021 International Conference on Circuits, Controls and Communications
11. [Video Stabilization for Drone Surveillance System](#), International Conference on Information Processing, 468-480



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Publications

13. [Drone Object Detection Using Deep Learning Algorithms](#), 2021 Third International Conference on Inventive Research in Computing ...
14. [Drone Image De-Noising and Feature Extraction](#), 2020 IEEE International Conference for Innovation in Technology (INOCON), 1-6
15. [ONBOARD OBSTACLE SENSING MECHANISM FOR DRONES USING MONOCULAR CAMERA](#) ARPJ Journal of Engineering and Applied Sciences 15 (7), 949-953
16. [Efficient Lookup Solutions for Named Data Networks](#), IJITEE 9 (2S), 2278-3075
17. [A Survey on Identification of Grape diseases](#), IJERCSE 6 (8)
18. [A Cross Layer UDP-IP protocol for Efficient Congestion Control in Wireless Networks](#), International Journal of Computer Science and Information Security 11 (12), 58
19. [A novel technique for congestion avoidance/control in high speed multimedia networks using Network Intrusion Detection systems](#), 2013 IEEE International Conference of IEEE Region 10 (TENCON 2013), 1-6
20. [A Novel, Unified Dynamic Data Dissemination \[D-Cube\] and Traffic Classification Technique for Congestion Avoidance in High Speed Wireless Multimedia Sensor Networks.](#), International Journal of Simulation--Systems, Science & Technology 14 (2)
21. [GA based optimal design of network architecture for desired connectivity and traffic demand](#), IJSER

Awards Received

- **Highly Commended Award** ([UAV and obstacle sensing techniques—a perspective](#), International Journal of Intelligent Unmanned Systems, 2018)
- **Best Paper award** ([A Cross Layer UDP-IP protocol for Efficient Congestion Control in Wireless Networks](#), International Journal of Computer Science and Information Security 11 (12), 58)
- **Best Teacher award @RNSIT in 2004**