

**1. NAME AND ACADEMIC RANK:** Dr. T. Kumanan, M.E., PhD.,

Professor



**2. EDUCATION:**

PhD Information and Communication Engineering Anna University,  
Chennai, 2014.

ME Computer Science and Engineering. Anna University,  
Chennai, 2005.

**3. ACADEMIC EXPERIENCE:**

2021- Present Professor, Department of Computer Science and Engineering, Dr M.G.R.  
Educational and Research Institute, full time.

2014- 2021 Professor, Department of Computer Science and Engineering, Meenakshi  
Academy of Higher Education and Research, full time.

2009- 2014 Associate Professor, Department of Computer Science and Engineering,  
Meenakshi Academy of Higher Education and Research, full time.

2005- 2009 Assistant Professor, Department of Computer Science and Engineering,  
Meenakshi College of Engineering, full time.

1996-2005 Assistant Professor & Head Department of Computer Science and Engineering,  
Thiru Seven Hills Polytechnic College, full time.

**4. NON-ACADEMIC EXPERIENCE:**

- Working as a software development intern at a tech company, collaborating on a project to develop a new mobile application.
- Serving as president of a student-run engineering club, organizing workshops, guest lectures, and networking events for members.
- Launching a social enterprise aimed at providing education and vocational training opportunities for underprivileged youth in rural areas.
- Volunteering at a local homeless shelter, organizing food drives and donation campaigns to support individuals in need.

**5. CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS:**

NIL

**6. CURRENT MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS:**

- Membership in MISTE Life Membership No.LM135101 New Delhi.
- Membership in Computer Society of India (CSI).

## **7. HONORS AND AWARDS:**

- Research Excellence Award 2023 from INSc Institute of Scholars.
- Global Faculty Award 2022 from AKS Educational Awards.
- Best paper award in the title of ‘Analysis of Underwater Image Enhancement Techniques.
- Best paper award in the title of ‘Friend List-Based Reliable Routing in Autonomous Mobile Networks’.

## **8. SERVICE ACTIVITIES:**

- CAMP OFFICER for board central valuation Anna university,,May 2008 examinations.
- Board Of Study Member for Maher -Fet College.
- Board Of Academic Councilmember For Maher -Fet College.
- Moderaton Committee Member For Examination Maher -Fet College.
- National Advisory Committee Member of International Conference on Emerging Trends in Science, Engineering And Management.

## **9. PATENT**

- CHRONIC DISEASE MONITORING HEALTHCARE ASSISTANT patent filled on 07/08/2024

## **10. PRINCIPAL PUBLICATION OF LAST FIVE YEARS (2019-2024)**

- Elangovan & Dr Kumanan T “Energy Efficient and Delay Aware Optimization Reverse Routing Strategy for Forecasting Link Quality in Wireless Sensor Networks” wireless personal Communication- Springer link, Volume 129, issue 4, April 2023pages923–942 (2023)
- Prasath. R & Dr. Kumanan, T., “Distance Oriented Cuckoo Search Enabled optimal histogram for underwater image enhancement: A novel quality metric analysis”, The Imaging Science Journal (Taylor & Francis) ISSN: 1368-2199 (Print)1743-131X (online), Volume-67 2019, Issue-2, pp-76-89. IF 0.98
- Prasath. R & Dr. Kumanan, T., “Enhanced artificial bee colony approach for the enhancement and classification of underwater images” International Journal of Computers and Applications (Taylor & Francis)1206-212X (online), IF 1.07
- R Prasath, & Dr.T Kumanan, Underwater Image Enhancement With Optimal Histogram Using Hybridized Particle Swarm and Dragonfly, The Computer Journal, 2021; Impact Factor 1.494

- Elangovan, Gand Dr. Kumanan,T. “Congestion aware Adaptive Reverse Routing Strategy for Improving QoS in WSN,” *Materials Science and Engineering*, IOP Publication, vol. 925, 2020, pp. 1-9.
- Vijayabaskar K and Dr. Kumanan, T., “Link Quality and Energy-Aware Metric-Based Routing Strategy in WSNS,” *Intelligent Computing in Engineering*, vol.1125, pp. 533-539, Springer, April 2020.
- Sivasankar C & Dr. Kumanan, T., “Huffman Coding Based Consistency Data Communication in Autonomous Mobile Network”, *Journal of Natural Remedies* Vol. 21, No. 6, pp. 2017-213, October 2020.
- Praveen, J. S., & Kumanan, T. (2021). Hybrid Ant Colony and Cuckoo Search Algorithm for Intelligent Routing in Wireless Sensor Network. In *Cognitive Informatics and Soft Computing* (pp. 625-635). Springer, Singapore.
- Deepa Lakshmi, P., & Kumanan, T. (2020, September). Elliptic curve digital signature technique based abnormal node detection in wireless ad hoc networks. In *IOP Conference Series: Materials Science and Engineering* (Vol. 925, No. 1, p. 012075). IOP Publishing.
- K. Krishnakumar, and T. Kumanan “Demand Based Virtual Machine Scheduling In Cloud Environment” , *European Journal of Molecular & Clinical medicine*. ISSN 2515 -8260, volume 07, Issue 10, 2020
- Aswini, J, & Kumanan, T 2019, ‘Deadline Constrained Based Resource allocation in Cloud Environment’, *International Journal of Innovative Technology and Exploring engineering*
- S.B.Prakalya,and .Dr.T.Kumanan,“ Power Efficient Clock Pulsed D Flip Flop Using Transmission Gate” *Turkish Journal of Computer and Mathematics Education*, e-ISSN 1309- 4653,Vol.12 No. 11, 2021.
- S. Mohan Kumar and Dr T. Kumanan “Skin Lesion Classification System Using Shearlets”, *Computer Systems Science and Engineering Tech Science Press*,Vol44,No.1,pp.833-844.

## **11. PROFESSIONAL DEVELOPMENT ACTIVITIES IN THE LAST FIVE YEARS**

- FDP on “Universal Human Values in Education”, AICTE-ATAL on 20/12/21 to 24/12/21.
- FDP on “Deep Learning using Tensor flow and Keras”, IIT kanpur on 28/2/22 to 5/3/22.

- FDP on “NAAC Webinar”, Dr MGR Educational and Research Institute on 7/3/22 to 11/3/22.
- FDP on “Machine Learning “, NITTR Chandigar on 28/3/22 to 1/4/2022.
- FDP on “Examination Reforms”,Dr MGR Educational and Research Institute on 25/4/22 to 29/4/22.
- FDP on “AI and Machine Learning for Healthcare Engineering” New Horizon College of Engineering, Bangaluru on 15/03/23 to 17/03/23.