


**DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING
STAFF PROFILE**

Staff Name	DR. C J RAMAN	
Faculty ID	TAM03	
Designation	Professor	
Qualification	M.E, Ph.D	
Teaching Experience	18 Years 10 Months	
Area of interest	Wireless Sensor Networks, Cloud Computing, Artificial Intelligence, Machine Learning	
Subjects Expertise	Computer Networks, Distributed Systems, Big Data Analytics, Reinforcement Learning	
Books Published	<ul style="list-style-type: none"> • Dr. R Jaichandran , Dr. C J Raman , Dr. N Gobalakrishnan , Dr. K Pradeep, “Emerging Technologies in Engineering Research, Chapter-12: Cyber Forensics”, Technical Research Publications, ISBN: 978-93-5419-211-1(Online), pp.142-150. October 2020 • Dr. C J Raman, Dr. S Kanaga Suba Raja, Dr. S Usha Kiruthika, and Dr. L Javid Ali, “Blockchain Technology for Privacy and Security Issues and Challenges in IoT Based Systems”, Blockchain for Information Security and Privacy, CRC Press (Taylor & Francis Group), ISBN: 9781003129486, 1 December 2021, pp. 193 - 215 	
Journals published	<p>INTERNATIONAL JOURNALS</p> <ul style="list-style-type: none"> • Raman, C.J. and Visumathi James (2015), “Fuzzy Based Congestion Control for Backpressure Routing Algorithm in Wireless Sensor Networks”, Research Journal of Applied Sciences, Engineering and Technology, ISSN: 2040-7459; e-ISSN: 2040-7467, Vol. 11, No. 11, pp.1179-1189. doi: 10.19026/rjaset.11.2224 (SJR 0.14) http://maxwellsci.com/msproof.php?doi=rjaset.11.2224 • Raman, C.J. and Visumathi James (2017), “Energy and Delay Reduction Algorithm for Cluster based Congestion Control in Wireless Sensor Networks”, Journal of Theoretical And Applied Information Technology, E-ISSN 1817-3195, ISSN 1992-8645, Vol. 95. No 4, pp. 757-768. (SJR:0.16). (SCOPUS Indexed) http://www.jatit.org/volumes/ninetyfive4.php • Raman, C.J. and Visumathi James (2018), “FCC: Fast congestion control scheme for wireless sensor networks using hybrid optimal routing algorithm”, Cluster Computing, The Journal of Networks, Software Tools and Applications, Springer, ISSN 1386-7857 (Print) 1573-7543 (Online), DOI 10.1007/s10586-018-1744-8, Vol 22 (S5), pp. 12701-12711 Impact Factor 1.601 (Web of Science Journal–Science Citation Index Expanded). http://link.springer.com/article/10.1007/s10586-018-1744-8. • Raman, C.J. and Visumathi James (2018), “Study of Packet and Task Scheduling Approaches in Wireless Sensor Network”, International Journal of Pure and Applied Mathematics”, ISSN 1311-8080 (Print) 1314-3395 (Online), Vol. 119, No. 15, pp. 661-666. (SJR 0.14). (SCOPUS Indexed). https://acadpubl.eu/hub/2018-119-15/3/476.pdf • Raman, C.J. and Visumathi James (2018), “Priority based Distributed Scheduling for Congestion and Collision Avoidance in WSN”, International Journal of Engineering and Technology”, ISSN 2227-524X, Vol. 7, No. 3.34, pp. 91-96. (SJR): 0.102 (SCOPUS Indexed). https://www.sciencepubco.com/index.php/ijet/article/view/18780. • Thejeswini C and C. J. Raman, “An Effective Audio on demand Securing through Localizability aided Localization over Wireless Sensor Network”, International Journal of Pure and Applied Mathematics, ISSN: 1314-3395 (on-line version) Volume 118 No. 20 2018, pp.5021-5031 (SJR 0.14). (SCOPUS Indexed). https://acadpubl.eu/hub/2018-118-21/articles/21f/55.pdf • S.Usha Kiruthika, S. Kanaga Suba Raja, V. Balaji, C.J.Raman, S. S. L. Durai Arumugam, “Detection of Tuberculosis in Chest X-rays using U-Net Architecture”, International Journal of Innovative Technology and Exploring Engineering, ISSN: 2278-3075, Volume- Issue-1, pp. 2514-2519, 	

	<p>November 2019. B Impact Factor: 5.54 (SCOPUSIndexed) https://www.ijitee.org/wp-content/uploads/papers/v9i1/A4834119119.pdf</p> <ul style="list-style-type: none"> • V.Balaji, S. Kanaga Suba Raja , C.J. Raman , S.Priyadarshini , S.Priyanka , S.P.Salai kamalathai, “Real Time Object Detector For Visually Impaired Using Open”, European Journal of Molecular & Clinical Medicine, ISSN 2515-8260, Volume 7, Issue 4, pp. 2963 – 2971, 2020, (SCOPUS Indexed) • K. Pradeep, L. Javid Ali, N. Gobalakrishnan, C. J. Raman and N. Manikandan, “CWOA: Hybrid Approach for Task Scheduling in Cloud Environment”, The Computer Journal, Volume 65, Issue 7, 2022, pp. 1860 –1873 (SCIE) https://doi.org/10.1093/comjnl/bxab028 • S.Kanaga Suba Raja, C.J.Raman, S. Usha Kiruthika, “A Novel Fraud Detection Scheme for Credit Card Usage Employing Random Forest Algorithm Combined with Feedback Mechanism”, Journal of Information Technology Management, Volume 13, Special Issue: Big Data Analytics and Management in Internet of Things, 2021, Pages 21-35 10.22059/JITM.2021.80615 • N. Gobalakrishnan , L. Javid Ali, K. Pradeep, C. J. Raman and N. Manikandan, “Optimization Techniques for Task Scheduling Criteria in IaaS Cloud Computing Atmosphere Using Nature Inspired Hybrid Spotted Hyena Optimization Algorithm”, Concurrency and Computation: Practice and Experience, Volume 34, Issue 24, 2022 (SCIE)DOI: 10.1002/cpe.7228 • Suresh Kumar K, Sai Sharvesh R, C J Raman, “Sailing through Time: A Neural Network Approach to analyzing Ship Logbooks for Weather Prediction”, Mukta Shabd Journal, Volume XIII, Issue 1, Jan 2024, pp. 1355 – 1360 (UGC Journal) • Shajan M, Suresh Kumar K and Dr. Raman C J, “An Overview of Intelligent Truck Booking Recommendation System”, International Journal of Creative Research Thoughts (IJCRT), Volume 12, Issue 1, Jan 2024, pp. f460 – f467 (UGC Journal) • Sai Sharvesh, R. Suresh Kumar, K and Raman, C.J., “ An Accurate Plant Disease Detection Technique Using Machine Learning”, EAI Endorsed Transactions on Internet of Things, 2024, 10 (Scopus Indexed)
Conference / workshop attended	9
Funded Project Details	Received fund of Rs.35000 to conduct Physical Mode Six days FDTP – Summer 2023 on AL3501 Natural Language Processing in August 2023
Patents	<ul style="list-style-type: none"> • A SYSTEM AND METHOD FOR SCHEMING WATER SUSTAINABILITY INDEX OF WATER BODIES THROUGH SATELLITE IMAGERY, Dr. S. Kanaga Suba Raja, Dr. C. Viswanathan, Dr. N. Ananthi, Dr. C.J.Raman , Dr. R. Jaichandran, V. Balaji, S. S. L. Durai Arumugam, Dr. M. Mohana, Dr. S. Usha Kiruthika, Dr. J. Kalaivani, Dr. K. Gunasekaran, OFFICIAL JOURNAL OF THE PATENT OFFICE, Issue No. 31/2020 Dated 31/07/2020 Patent granted 18/04/2022 • AI – ASSISTED IMAGE RECOVERY FOR LOW-DOSE CT SCANS, Ms.S.Jayachitra, Dr.A.Prasanth, Dr.Sandeep Chinta, Dr.K Abhimanyu Kumar Patro, Dr.C.J. Raman, Mr.G.Inbasakaran, Dr.K.Kalyani, Dr.D.Gouse Peera, Mr.Raju Bura, Ms.J.Jayalakshmi, OFFICIAL JOURNAL OF THE PATENT OFFICE, Issue No. 24/2023 Dated 16/06/2023 • AI BASED CYBER THREATS PREDICTING SYSTEM THROUGH HACKER SOCIAL NETWORKS IN DARKWEB AND DEEPWEB FORUM, K.Gayathri, Abhishek Satyarthi, Pragya Deep, Dr. Rohini T V, Dr.C J Raman, Dr. Sandip Haldar, Prof (Dr.) Subhrendu Guha Neogi, M.Deepashri, B.Kavitha, K Yasodha, OFFICIAL JOURNAL OF THE PATENT OFFICE, Dated 24/05/2024 • AI AND BLOCKCHAIN-BASED CYBERSECURITY SYSTEM FOR REAL-TIME THREAT DETECTION AND MITIGATION IN IOT NETWORKS, Dr.C. Sreedhar, Dr. Debayan Mandal, Dr. Dipankar Das, Subimal Nandi, A Neelima, Mr. Sandeepan Saha, Dr.C J Raman, Mrs.N.Padmashri, Ms. R. Swathiramy, Prof (Dr) Subhrendu Guha Neogi, OFFICIAL JOURNAL OF THE PATENT OFFICE, Dated 23/08/2024
Awards & Achievements	-