



ANNA UNIVERSITY
CHENNAI – 600 025



INDIVIDUAL FACULTY PROFILE

1. Name of the faculty : Dr. C. Ramasamy Sankar Ram
2. Designation & Department : Assistant professor, Sl.Grade, Department of CSE
3. College with address : Anna University, Tiruchirappalli – 620 024
4. Email id : sankararam@aubit.edu.in
5. Date of Birth : 30.03.1983
6. Contact No. : +91-9894351539
7. Scopus Author ID : 57217155431
8. Supervisor Reco. No. : 4190061

9. Educational Qualifications:

Name of the Degree	Specialization/ Branch	Year of Passing	Name of the University
B.Tech	IT	2005	Anna University Chennai
M.E	CSE	2010	Anna University Tiruchirappalli
Ph.D	CSE	2020	Anna University Chennai

10. Previous Experience:

Name of the College/Industrial	Designation	Date of Joining	Date of Relieving
Anna University Chennai	System Programmer	07.01.2006	06.02.2007
Anna University Tiruchirappalli	Technical Officer Gr-II	07.02.2007	22.08.2010
Anna University Tiruchirappalli	Visiting Faculty	23.08.2010	28.02.2011
Anna University Tiruchirappalli	Assistant Professor	01.03.2011	Till date

11. Specialization:

1. Artificial Intelligence
2. Bioinformatics
3. Internet of Things
4. Mobile Application Development (Android & iOS)

12. Languages & Skills:

1. Java
2. Objective-C
3. Python
4. Swift

13. Academic Contributions:

Courses Taught at UG/PG Level:

1. Internet of Things
2. Context Aware Computing
3. Pervasive Computing
4. Cloud Computing
5. DevOps
6. Data structures and Algorithms
7. Mobile Application Development
8. Object oriented programming
9. Game Programming
10. Web Programming
11. Ethical Hacking
12. Cyber Security

14. Research Supervisor:

PhD: 4 Ongoing
PG: 16 Completed
UG: 25 Completed

15. Additional Responsibilities:

Institute Level:

1. **Zonal Officer**, Zone XVIII Tiruchirappalli (August 2023 to till date)
2. **Member**, Anti-Ragging Cell (August 2022 to till date)
3. **Induction Training Programme Coordinator** (August 2019 to September 2019)
4. **Member on Enquiry Committee** for Malpractice Activities

University Level:

5. **Public Relations Officer** (March 2011 to March 2014)
6. **Student Counsellor** (April 2011 to March 2012)

16. Awards, Honour and Recognition

1. Achieved **Outstanding contributions and stellar commitment** for Confederation of Elite Academicians of IICDC from Texas instruments DST, AICTE and IIM Bangalore (2019)
2. Received **Appreciation Award in Recognition** for Fostering an Ecosystem Bridging Government, Industry, and Academia from DST and Texas Instruments (2018)

17. Completed Projects:

1. Unmanned Ground Vehicle Monitoring System with 360-degree video processing in Precision Agriculture and Information Management System, Centre for Technology Development and Transfer, Anna University, Chennai, 2019
2. Cloudburst amount and Duration Detector, AICTE, DST and Texas Instruments, 2020

18. Conferences Organized:

1. TEQIP II Sponsored “International Conference on Computational Intelligence” ICCI, 7th & 8th April 2015
2. TEQIP II Sponsored “National Conference on Recent Innovations in Information Technology” NCRIT, 17th & 18th August 2016

19. Significant Outreach Activities:

1. Reviewer, International Journal of Distributed Sensor Networks
2. Reviewer, Computers, Materials & Continua
3. Reviewer, Intelligent Automation & Soft Computing
4. Reviewer, Journal of Biology and Nature
5. Served as the Reviewer, Session Chair for various National and International Conferences

20. Membership in Professional Bodies:

1. Life member in Computer Society of India
2. Active member in International Association of Engineers

21. Recent publications:

Journals:

1. Subramaniam, U., Rengasamy, I. and Chellappa, Sankar Ram. “Sustainable Development in Reservoir Sedimentation Load Estimation from Statistical Analysis of Datasets to Deep Learning Algorithms”, *Global NEST Journal*, 27(1), 2025
2. C. Sankar Ram, C. Suresh Kumar, P.Siva and R.Vinoth, Enhanced Customer Experience through Real-Time Product Availability Notifications, *Indian Journal of Natural Sciences*, Vol.14,79,2023
3. C.Sankar Ram, C.Suresh Kumar, M.Mohanapriya, D.Swtetha, Unleashing the Power of Deep Learning: Decoding DNA Sequences through Frequency Chaos Game Representation, *Indian Journal of Natural Sciences*, Vol.14,79,2023
4. Ram S.R., Narayanan L., Krishnan S., and Robinson H., Biodiversity in a forest ecosystem in India using environmental DNA sequence analysis of pathogen-hostile eucalyptus trees *Global NEST Journal*, Vol 25, No 3, pp 37-43, 2022, doi.org/10.30955/gnj.004512

5. Ram CRS, Ravimaran S, Krishnan RS, et al. Internet of Green Things with autonomous wireless wheel robots against green houses and farms. *International Journal of Distributed Sensor Networks*. 2020;16(6). doi:10.1177/1550147720923477
6. C. Sankar Ram, V. Nagarajan, DHT Based Node Replica Discovery in Wireless Sensor Networks, *International Journal of Advance Engineering and Research Development*, Volume 4, Issue 5, 260-265, May 2017
7. C. Ramasamy Sankar Ram and Dr.S. Ravimaran, A Study on JSON Web Services and Public Web APIs, *Elixir International Journal of Renewable Energy*, 102, 44172- 44174, December 2016
8. C. Ramasamy Sankar Ram and Dr.S. Ravimaran, A Study of an Aspect-Oriented Programming: Impact of Behavioral Modifications on User Interface Classes with Aspects in Mobile Application Development through REST", Issue 3, IJPPAS, 104607, December 2016

Conferences:

1. G. Sharmila and C. Ramasamy Sankar Ram, "Performance Evaluation of Deep Learning Based Industrial Safety Enhancement in Multiple Safety Equipment Detection," *International Conference on Advances in Computing, Communication and Applied Informatics (ACCAI)*, Chennai, India, 2024, pp. 1-6, 2024
2. Sivapriyanka P. and Ramasamy Sankar Ram C, "A Novel Encrypted Data Hiding and Image Encryption for Authentication Based Communication Framework," *2024 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES)*, Chennai, India, 2024, pp. 1-6, doi: 10.1109/ICSES63760.2024.10910445.
3. R. Daniel, Ramasamy Sankar Ram et al., "Development and Evaluation of Sequential Batch Reactor with Natural Coagulants for Dairy Waste Water Treatment," in *2024 5th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI)*, Lalitpur, Nepal, 2024 pp. 851-857
4. R. Thirupathieswaran, R. S. Krishnan, K. L. Narayanan, R. Krishnan, C. R. S. Ram and Y. H. Robinson, Mobile Application Based Secured Smart Museum for COVID-19 Pandemic Situation, *2022 International Conference on Sustainable Computing and Data Communication Systems (ICSCDS)*, Erode, India, 2022, pp. 1230-1237, doi: 10.1109/ICSCDS53736.2022.9760772.
5. R. S. Krishnan, K. L. Narayanan, S. M. Murali, A. Sangeetha, C. R. Sankar Ram and Y. H. Robinson, IoT based Blind People Monitoring System for Visually Impaired Care Homes, *2021 5th International Conference on Trends in Electronics and Informatics (ICOEI)*, Tirunelveli, India, 2021, pp. 505-509, doi: 10.1109/ICOEI51242.2021.9452924.
6. K. L. Narayanan, C. R. S. Ram, M. Subramanian, R. S. Krishnan and Y. H. Robinson, IoT based Smart Accident Detection & Insurance Claiming System, *2021 Third International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV)*, Tirunelveli, India, 2021, pp. 306-311, doi: 10.1109/ICICV50876.2021.9388430.
7. C.Sankar Ram, Genomic Sequencing and Analysis of COVID-19 for Notifying Public Health Decision- Making in India, *Young Scientist Conference Proceedings, IISF 2020*, December 2021
8. C.Sankar Ram, Dynamic Clustering SOAP Messages Based on Compression and Aggregation Model to improve Web Services Performance, *IEEE Sponsored International conference on Green Engineering and Technologies*, November 2015
9. C.Sankar Ram, Deadline Based Workflow Analysis Using Transformation Based Optimization Framework, *International conference on Engineering Technology and Science*, March 2015
10. S.Jagan, C. Sankar Ram, Adaptive and accurate estimation of availability of Web Services, *Science and Innovative Engineering, Journal of Science and Innovative Engineering & Technology*, April 2014
11. C.Sankar Ram, A Novel Method for Enhance Routing in MANET using Trust Based Computation, 6th

National conference on Recent innovations in Science and Engineering, SURYARISE'14, March 2014

12. S Sugantha, C Ramasamy Sankar Ram, Link Based Cluster Ensemble Framework - Clustering Categorical Data for Internet Security Applications, International Journal of Computer Applications, ICSEM, 24-28, August 2013
13. C.Sankar Ram, Review of zigbee Technology, National Conference Proceedings on Emerging Trends in Engineering, EMCA'11, April 2011
14. C.Sankar Ram, Adaptive RESTfull Web Services on iPhone, National Conference Proceedings of NCCT- 2K10, Tiruchirappalli, March 2010

22. Book Chapters:

1. Yoganathan, B., and C. Ramasamy Sankar Ram. "Evaluation of Multi-Token MAC-cum-Routing Protocol in Intelligent Transportation System: Smart Traffic Management System." Urban Mobility and Challenges of Intelligent Transportation Systems, edited by Kiran Bellam, et al., IGI Global, 2025, pp. 71-102. <https://doi.org/10.4018/979-8-3693-7984-4.ch005>
2. Sharmila, G., and C. Ramasamy Sankar. "Vehicle Pooling With Breakpoint Intimation." Urban Mobility and Challenges of Intelligent Transportation Systems, edited by Kiran Bellam, et al., IGI Global, 2025, pp. 549-578. <https://doi.org/10.4018/979-8-3693-7984-4.ch030>
3. R. Uma Mageswari, Ramasamy Sankar Ram et al. Establishment of FANETs Using IoT-Based UAV and Its Issues Related to Mobility and Authentication. Modelling and Simulation of Fast-Moving Ad-Hoc Networks (FANETs and VANETs), edited by T.S. Pradeep Kumar and M. Alamelu, IGI Global, 2023, pp. 74-93. <https://doi.org/10.4018/978-1-6684-3610-3.ch004>
4. Lakshmi Narayanan, K. et al. (2022). Internet of Things Based Smart Accident Recognition and Rescue System Using Deep Forests ML Algorithm. In: Balas, V.E., Solanki, V.K., Kumar, R. (eds) Recent Advances in Internet of Things and Machine Learning. Intelligent Systems Reference Library, vol 215. Springer, Cham. https://doi.org/10.1007/978-3-030-90119-6_4

23. Book Published:

1. Problem Solving and Python Programming, VR1 Publications, 2022, ISBN: 978-93-91332-39-6

24. Mentorship:

1. Mentor, The Inventors Challenge, AICTE (August 2023- Till date)
2. Mentor, Covid-19 National Bio Informatics Hackathon (Apr. 2020 - Jul. 2020) Mentor, SIP 2019 from CTDT Anna University Chennai (Jan. 2020 - May 2020)
3. Mentor, IICDC, AICTE&DST 2019 (May 2019 - Aug. 2019)
4. Mentor, IICDC, AICTE&DST 2018 (Mar. 2018 - Aug 2018)

25. Invited Talks/ Resource Person:

1. Invited talk on "AloT:A hands-on Approach", M.I.E.T. Engineering College, Tiruchirappalli on 23rd April 2025
2. Being a jury for a Hackathon organized by Indira Gandhi Centre for Atomic Research, Kalpakkam on March 1st, 2025
3. Being a resource person on "IoT Based Ayurvedic Approach" at Nandha Medical College and Hospital, on November 7th, 2024
4. Attended a talk on "Industry requirements on IoT in AI", AVVM Sri Pushpam College, Poondi, Thanjavur on 7th March 2024
5. Invited talk on "Applications of Internet of Things", Moogambiagai Mookambigai College of Engineering, Tiruchirappalli on 28th February 2024

6. Delivered a talk on "National Security Day" at Dhanalakshmi Srinivasan University, Tiruchirappalli, November 30th, 2023
7. Being a resource person on "Applications of Internet of Things" at MAM College of Engineering and technology, on October 12th, 2023
8. Being a jury for technical paper presentation in TECXPLO '23 at Mookambigai College of Engineering, Tiruchirappalli on 24th, March, 2023
9. Being resource person for "A hands-on training session focused on IoT and Machine Learning" at Dhanalakshmi Srinivasan University on January 3rd, 2023
10. Attended a talk on "Object-Oriented Programming Applications" at K. Ramakrishnan College of Engineering, on November 3rd, 2022
11. Being resource person in a workshop titled "Predictive Modelling and Data Analysis using Python Based Machine Learning Technique" at Sri Sairam Institute of Technology for AICTE sponsored FDP, on May 8th, 2020
12. Being a jury for Mini Project Expo in Chettinad College of Engineering and Technology, karur on 10th October, 2018
13. Being a jury for IEEE Conference at K.Ramakrishnan College of Engineering, Tiruchirappalli on 14th March, 2018
14. Involved in a workshop centered around "Advanced Web Application Development in Python" at Anna University Tiruchirappalli, on March 7th, 2019.
15. Attended a talk on "Web Application Development using Spring" at MAM College of Engineering, on February 1st, 2019,
16. Being resource person in a session on "Flexible IoT Development with Web App on Flask Framework" at SCAD College of Engineering and Technology, on September 11th, 2017.
17. Engaged in a workshop on "Advanced Object-Oriented Programming" at Shanmuganathan Engineering College, on September 11th, 2017.
18. Being resource person in a workshop titled "Mobile Application Development in iOS" at MAM College of Engineering on March 10th, 2017,

26. Patents Filed:

1. Design of Smart Two-Wheeler Safety System Based on Embedded Sensors, February 2021
2. Design a Non-Invasive Glucometer for Diabetic Patients, March 2021