

Dr. Sr. A. Arul Anitha, M.C.A., Ph.D., NET.

Head & Assistant Professor

Department of Computer Applications

Jayaraj Annapackiam College for Women (Autonomous),

Periyakulam, India

**Personal & Contact Information**

- **Date of Birth:** 10 July 1978
- **Mobile:** 8270221978
- **Email:** arulanita@gmail.com, arulanitha_phdcs@sjctni.edu

Academic Identity

- **ORCID:** 0000-0002-1256-5418
- **SCOPUS ID:** 57211289098
- **Researcher ID:** AAB-9169-2022
- **Google Scholar:** DhjKMwEAAAAJ
- **VIDWAN-ID:** 324078
- **ResearchGate:** <https://www.researchgate.net/profile/Dr-Anitha-2/stats>

Educational Qualifications

Degree	Specialization	University	Year
Ph.D.	Security in IoT	Bharathidasan University, Trichy	2022
NET	Computer Applications	UGC NET	2018
M.C.A.	Computer Applications	M.S. University, Tirunelveli	2006
B.Sc.	Computer Science	M.K. University, Madurai	2002

Professional Experience

- **Head & Assistant Professor**, Jayaraj Annapackiam College for Women – **4 Years** (2022 - Present)
- **Assistant Professor**, Jayaraj Annapackiam College for Women- **6 Years** (2006 – 2012)

Doctoral Research Summary

- **Thesis Title:** Techniques to Detect Resource Attacks in RPL-based Internet of Things
- **Research Centre:** St. Joseph's College (Autonomous), Tiruchirappalli
- **Duration:** November 2018 - April 2022 (**Full-Time**)

Research Interests

- Computer Networks and Security
- Internet of Things (IoT) & Security Attacks in IoT
- Data Mining
- Artificial Intelligence and Machine Learning

Awards Received

- **Best Researcher - 2020:** St. Joseph's College, Tiruchirappalli

Research Contributions

Patents

- Published an Indian Design Patent on "**Soil PH and Nutrient Testing Devices for Precision Farming**", Design No: 451311-001, on 03.07.2025.
- Published a patent on "**A Robust Cybersecurity Threat Detection Model Using Artificial Intelligence Technology**", Application No. 202441072977, on October 4, 2024.

Books Published

1. ***Artificial Intelligence and Machine Learning***, Indo-Continental Academic Publishers, 2025
2. ***Oru Neerodaiyin Payanam***, Joe Offset Printers, 2023
3. ***Python Programming***, JBR TRI SEA Publishers, 2022
4. ***Fundamental Theories in IoT Design, Deployment and Optimization***, Innovative Global Publication & San International Scientific Publications, 978-81-993810-7-0
<https://doi.org/10.59646/iot/461>
5. ***Computer Fundamentals and Organization***, Vasantha Pathippagam, 978-93-6415-322-5

Paper Publications (Scopus Indexed-9, Peer-Reviewed-4)

1. **A. Arul Anitha**, A. Stephen and Dr. L. Arockiam, "A Hybrid Method on Smart Irrigation System", International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277 – 3878, Volume 8, Issue 3, 2019, pp. 2995 – 2998, **(Scopus Indexed)**.
2. **A. Arul Anitha** and Dr. L. Arockiam, "ANNIDS: Artificial Neural Network based Intrusion Detection System for Internet of Things", International Journal of Innovative Technology and

Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume 8, Issue 11, 2019, pp.2583-2588.
(Scopus Indexed)

3. **A. Arul Anitha** and Dr. L. Arockiam, "Promoting a Clean and Hygienic Environment using IoT", International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume 8, Issue 5, 2020, pp. 4722-4726. **(Scopus Indexed)**
4. **A. Arul Anitha** and Dr. L. Arockiam, "VeNADet: Version Number Attack Detection for RPL based Internet of Things", Solid State Technology, Volume 64, Issue 2, 2021, pp.2225-2237. **(Scopus Indexed)**
5. **A. Arul Anitha** and Dr. L. Arockiam, "Ada-IDS: AdaBoost Intrusion Detection System for ICMPv6 based Attacks in Internet of Things", International Journal of Advanced Computer Science and Applications, Volume 12, Issue 11, December 2021, pp. 499-506. **(Scopus and WoS Indexed)**
6. **A. Arul Anitha** and Dr. L. Arockiam, "A Review on Intrusion Detection Systems to Secure IoT Networks", International Journal of Computer Networks and Applications", ISSN: 2395-0455, Volume 9, Issue 1, February 2022, pp.38-50 **(Scopus Indexed)**
7. **A. Arul Anitha**, "DISTec: A Detection and Mitigation Technique for DIS Flooding Attacks in the Internet of Things", Iraqi Journal of Science, Vol. 66, Issue 10, pp. 4461-4472 **(Scopus-Indexed)**.
8. V S Krishnasamy, Ganesh Kumar Anbazhagan, Adapa Gopi, M. Misba, **A. Arul Anitha**, and Osama R. Shahin "Artificial Intelligence-Based Intrusion Detection Systems for Cloud and Internet of Things (IoT) Environment", International Journal of Computer Information Systems and Industrial Management Applications, ISSN 2150-7988 Volume 18(10s) 2026 pp. 1056-1065. **(Scopus-Indexed)**.
9. **A. Arul Anitha**, Anand R, Arpita Nath Boruah, and Arun Raj S.R. "Adaptive Neuro-Digital Twin with Cross-Domain Multimodal Representation Learning for Early Alzheimer's Disease Prognosis", International Journal of Advanced Computer Science and Applications (IJACSA), Vol. 17, No. 6, 2026. **(Scopus-Indexed)**.
10. **Dr. A. Arul Anitha**, "Security Challenges and Protection Mechanisms in the Internet of Things", International Journal of Innovative Research in Engineering, Volume 7, Issue 4 (July - August 2026), PP: 33-38.
11. V. A. Jane S. Sathyapriya, **A. Arul Anitha**, "Prediction of Heart Disease using AI-Enhanced Naive Ensemble Decision Classifier", International Journal of Business and Economics Research (IJBER), Special Issue, pp. 374-386, Dr. BGR Publications, 2025.
12. A. Stephen, **A. Arul Anitha** and Dr. L. Arockiam, "Cloud Computing: Opportunities and Challenges", ReTeLL, Vol. 21, June 2019.
13. **A. Arul Anitha**, "Network Security using Linux Intrusion Detection System", International Journal of Research in Computer Science, eISSN 2249-8265 Volume 2 Issue 1 (2011) pp. 33-38.

Paper Presentations

- International Level - 4
- National Level - 4

Research Project

- **Title:** Promoting a Clean and Hygienic Environment using IoT
- **Agency:** St. Joseph's College- Research Grant for Scholars
- **Year:** 2019-2020

Professional Engagement & Development

Resource Person- (Around 25 Events)

- St. Joseph's College (Autonomous), Tiruchirappalli (DBT Sponsored Course)
- Annai Velankanni Polytechnic College, Anguchettipalayam (FDP)
- Paavai Engineering College, Namakkal (Seminar)
- St. Anne's School, Royappanpatti
- St. Anne's Novitiate, Crawford, Trichy (Training Programme)
- Jayaraj Annapackiam College for Women, Periyakulam (FDPs, Seminar, Workshop)
- St. Anne's College of Engineering and Technology, Panruti (FDP, Seminar)
- St. Anne's College of Education, Periyakulam (FDPs, Seminar, Workshop, Hands-on Training)
- Maria Province Madurai (Hands-on Training)
- St. Anne's Matric. Hr. Sec. School, Thattanchavadi, Cuddalore (FDP, Seminar)

Professional Memberships

- International Association of Engineers (IAENG)
- Computer Science Teachers Association (CSTA)
- International Association of Academic Plus Corporate (IAAC)

Journal Reviewer

- The Computer Journal (Oxford Academic), **Scopus Indexed**
- Computers and Security (Elsevier), **Scopus Indexed**
- International Journal on Artificial Intelligence Tools (World Scientific), **Scopus Indexed**
- Iraqi Journal of Science, **Scopus-Indexed**

- Indonesian Journal of Electrical Engineering and Computer Science, **Scopus Indexed**
- Asian Journal of Mathematics and Computer Research, **Peer-Reviewed**

Professional Development Programmes Attended

Dr. A. Arul Anitha has participated in **more than 100 Academic and Professional Development Programmes**, including Faculty Development Programmes (FDPs), seminars, conferences, workshops, hands-on training programmes, short-term courses, three-month courses, and online programmes.

Declaration

I, hereby declare that the above furnished details are true to the best of my knowledge and belief.

Dr. A. Arul Anitha