



Associate Professor & Head , Department of Computer Science & Engineering

Full Time PhD in Information & Communication Engineering, **Anna University, Chennai**
(January 2016-October2021)

PhD Thesis : **A novel Approach for Image Forgery Detection.**

PhD Evaluation Status: **Highly Commended.**

Guide & Coordinator: Dr.S. Poonkuntran, Dr. P. Karthikeyan, Velammal College of Engineering & Technology, Madurai(Anna University Research Center in Madurai)

M.B.A Information Technology & HR, Dr. C.V. Raman University(Distance)

M.Tech In Information Technology, Kalasalingam University(2009-2011), Krishnankoil, Virudhnagar dt., Tamilnadu

B. Tech Computer Science and Engineering, Cochin University of Science And Technology, Cochin (2004-2008), *Institute:* College of Engineering, Thalassery (Under CAPE govt. Of Kerala)

Other Achievements:

1. Volunteer of Kerala Police Cyberdome

2. Indian patent filed & Published : 3

Indian patent filed:1

3. Total publications:38

4. Total citations :40+

5. IT Certifications :

5.1 Diploma in Hardware and Networking, Network Academy, Calicut

5.2 CCNA, Network Academy, Calicut

5.3 RHCE, Doeacc Center, Calicut

- 5.4 Certificate in VB.NET and C#.NET, Aptech, Kannur.
- 5.5 Certificate in Database Administration, Aptech, Kannur
- 5.6 Certificate in Java Programming, Cyber Prism, Kochi
- 5.7 EC Council Certified Ethical Hacker, Gray tips, Kaloor, Kochi
- 5.8 EC Council Certified Computer Hacking Forensic Investigator, Blue Shell Security, Kochi
- 5.9 Private Detective, NIPI, Jaipur(Virtual mode).

PhD Supervisors & Examiners

Supervisor: Dr.S.Poonkuntran, Professor & Dean, School of Computer Science & Engg., VIT-Bhopal, Madhya Pradesh, India.

During 2016-2020(Professor, Dept. of Computer Science & Engg., Velammal College of Engineering & Technology, Madurai, India.)

Coordinator: Dr.P.Karthikeyan, Associate Professor, Dept. of ECE, Velammal College of Engineering & Technology, Madurai, India.

Thesis Status: *Highly commended.*

TECHNICAL SKILLS

Cyber Security:

Kali Linux tools evaluation and content writing, Termux tools evaluation and content writing, NMAP, NESSUS, Windows Command Prompt Evaluations, GITHUB readily available codes evaluation in termux and kali linux, CEH, CHFI, CISSP knowledge sharing, Cyber Security Webinar Speaker.

Machine Learning & Data Science:

Supervised Learning algorithms and scikit learn implementations, Feature Extraction and Feature Matching analysis, Feature scaling and pre processing approaches, Bio-inspired algorithms, Mathematical modelling, Any CSV/ XLS/ JSON file creation and utilizing evaluations, Google colab based evaluations, Image Classification & Localisation, Supervised learning methods(scikit learn based implementations).

System Administration:

Basic administration skills.

Data presentation techniques:

LaTeX typesetting, Microsoft office- Word, Excel and PowerPoint.

Computer Programming:

Java, C, C++, SQL, Python, C#, Visual Basic, Pl/SQL.

PUBLICATIONS

1. **Arun Anoop M** and S. Poonkuntran, “**Certain investigation on Biomedical impression and Image Forgery Detection**”, International Journal of Biomedical Engineering and Technology, Volume 37, Year 2021, Pages 1-24.
2. **Arun Anoop M** and S. Poonkuntran, “**LPG: a novel approach for medical forgery detection in image transmission**”, Journal of Ambient Intelligence and Humanized Computing, Year 2020, Pages 1--17
3. **Arun Anoop Mandankandy & Kannammal k.E**, “**Fake currency detection: A survey**”, Gedrag en Organisatie, Volume , Year 2020.
4. **Arun Anoop Mandankandy**, Poonkuntran Shanmugam, “**Dbelm for Image Forgery Detection**”, IJCAT, Volume , Year 2020
5. **Arun Anoop M**, Dr.S.Poonkuntran, Dr.V.Vasudevan, Dr.P.Alli, “**Study of the importance of digital forensics and deep learning tools**”, International Journal of Advanced Science and Technology, Volume 28, Year 2019, Pages 963-978
6. **Arun Anoop Mandankandy**, Poonkuntran Shanmugam, “**Image Forgery Detection - A Survey**”, Journal of Signal Processing and Wireless Networks, Volume , Year 2019
7. **Arun Anoop M** and S. Poonkuntran, “**LORA APPROACH FOR IMAGE FORGERY DETECTION AND LOCALIZATION IN DIGITAL IMAGES**”, CnR's International Journal of Social & Scientific Research, India, Volume , Year 2019
8. **Arun Anoop M** and S. Poonkuntran, “**DFE Approach for CMFD on Digital Images - A Review and Performance Evaluation**”, IJCAT - International Journal of Computing and Technology, Volume , Year 2018
9. **Arun Anoop M** and S. Poonkuntran, “**Copy Move Forgery Detection on Digital Images - Primer Research**”, International Scientific Global Journal in Engineering Science and Applied Research (ISGJESAR), Volume , Year 2018.
10. **Arun Anoop M**, “**Image Noise and Edge Filtering - A Survey, Analysis using MATLAB**”, IJCAT - International Journal of Computing and Technology, Volume , Year 2016
11. **Arun Anoop M**, “**Study of Cloned Websites: Practical View of Phishing Website Design and Prevention**”, IJCAT - International Journal of Computing and Technology, Volume , Year 2016
12. **Arun Anoop M** and S. Poonkuntran, “**Study of multimedia security: Multimedia forgery detection- A survey**”, ICET(International Conference on Engineering and Technology) 2016, Volume , Year 2016
13. **Arun Anoop M** and S. Poonkuntran, “**Study of Multimedia Security: Multimedia Forgery Detection and History-A Survey**”, International Journal of Printing, Packaging & Allied Sciences, Volume 4, Year 2016, Pages 2456 – 2462.

14. Arun Anoop M, "Image forgery and its detection: A survey", International Conference on Innovations in Information, Embedded and Communication Systems (ICIIECS), Volume , Year 2015
15. Arun Anoop M, "A review on Image forgery and its detection", IJCAT - International Journal of Computing and Technology, Volume 2 , Year 2015.
16. Prathyusha M. Kumar, Arun Anoop M., Viju P. Poonthottam, "Survey on Security Methods in Publish/Subscribe System", IJCAT - International Journal of Computing and Technology, Volume , Year 2015
17. Arun Anoop M, "Review on Image forgery and its detection", ICAEET 2015, Volume , Year 2015
18. Prathyusha M. Kumar, Arun Anoop M, Viju P Poonthottam, "Review on security schemes in Publish/Subscribe system", ICETET, Volume , Year 2015
19. S.Poonkuntran, M.Arun Anoop, "Study of Open Networks: Analysis of Network Discovery Tools", IEEE sponsored 9th International conference , Year 2015, Pages 1--7
20. Arun Anoop M and S. Poonkuntran, "Study of Honeypots: Analysis of WiFi_Honeypots and Honeypots tools", International Conference Karpagam, Volume 7, Year 2014
21. Vrinda A, Arun Anoop Mandankandy, "Trust and Reputation Management for Secure Communication in DTNs", IJCAT - International Journal of Computing and Technology, Volume 2, Year 2014.
22. Vrinda A, Arun Anoop Mandankandy, "Securing Images using Encryption Techniques A Survey", IJCAT - International Journal of Computing and Technology, Volume 6, Year 2014
23. Vrinda A, Arun Anoop Mandankandy, "Approaches to Trust Management for Secure Communication in Delay Tolerant Networks: A Survey", National Conference on Current Trends in Computer Science (CTCS-14), Volume , Year 2014
24. Vidya K S, Arun Anoop Mandankandy, "Lifetime Enhanced Cluster Based Routing in Wireless Sensor Networks", International Journal of Scientific and Engineering Research, Volume , Year 2013
25. Vidya K S, Arun Anoop Mandankandy, "Energy-Efficient Clustering Techniques in Wireless Sensor Networks-A Review", Conference, Volume , Year 2013
26. Sreekkutty S & Arun Anoop M, "Energy Enhanced Real-Time Multicasting In Manet", International Conference on Computer Science & Information Technology, 27th Jan-2013, Kanyakumari, Volume , Year 2013
27. Arun Anoop M, Ram Kumar M, "Detecting the Replay Attack in Key- Management over SCADA Communication Network", International Journal of Computer Applications in Engineering Sciences (IJCAES) , Volume 4, Year 2011
28. Arun Anoop M, "Key-management security over SCADA communication network using Timestamp", National Conference on Emerging trends in mobile technologies & security (ETMTS-11), Volume 2, Year 2011
29. Arun Anoop M, "Time stamp technique to detect the replay attack in key management over SCADA communication network", NCAC'11, Volume , Year 2011
30. Dr.Poonkuntran S, Arun Anoop M, "Study of open networks: Analysis of Network Discovery tools", IJAER, Vol. 10, No.1, 2015, pp 1-7
31. Dr.Poonkuntran S, Arun Anoop M, "Study of honeypots: Analysis of wifi_honeypots and honeypot tools", AENSI, 2014.
32. Mr.Arun Anoop M, "Review on Image forgery and its detection", IJAER, vol 10, No.55, 2015.
33. K. R. Suganamuki, M. Arun Anoop, "A Smart Time Table Generator", International Journal of Research Publication and Review, Volume , Year 2021.
34. Janardhanan Y , Dhinesh S R, Manda Santhosh Kumar, Arun Anoop M, "A novel method for SQL Injection Prevention", IEEE Xplore, Volume , Year 2020.

INDIAN PATENTS FILED

1. Title: **LOCAL PATTERNS OF GREY LEVEL (LPG) BASED IMAGE FORGERY DETECTION**, Application Number: 202141002197.
2. Title: **Random Region Rotation BASED IMAGE FORGERY DETECTION**, Application Number: 202141018510 A.
3. Title: **A METHOD FOR DETECTING BREAST CANCER USING BAT OPTIMIZED HCGLCM**, Application Number: 202141035506 A.
4. Title: **Proposed IoT based Smart Watch Drone Healthcare system & UFE 14 A, SFE 12 A approaches based Heart risk prediction**, Status: Filed

BOOKS

PUBLISHED

Sl.No	Author(s)	Book Name	Details
1	<i>Arun Anoop M, Poonkuntran S</i>	<i>A Brief study on "Multimedia Security" In Research</i>	<i>ISBN-13:978-93-86258-63-2, FIRST EDITION, JULY 2017, VSRD Academic Publishing.</i>
2		<i>LATEX AND MEDIA COMMUNICATIO N MADE EASY</i>	<i>ISBN-13:978-93-86258-66-3, FIRST EDITION, AUGUST 2017, VSRD Academic Publishing.</i>
3		<i>Winner's guide for PG & PhD entrance exams COMPUTER Science</i>	<i>ISBN-13:978-93-86258-89-2, FIRST EDITION, JANUARY 2018, VSRD Academic Publishing</i>

4	Dr.Arun Anoop M	<i>Database Management Systems(KTU syllabus)</i>	ISBN: 978-93-93737-89-2 Publisher: Shanlax publishers, Madurai.
5	Arun Anoop M	<i>Digital Marketing and Gamification in Tourism</i>	<i>Publisher: Shanlax Publishers, Madurai. (Book Chapter)</i> Book Name: "Big Data Analytics for Business Intelligence - Descriptive Case Studies on Smart Tourism in India" Status: Published
6	Arun Anoop M, Dr.P.Karthikeyan Dr.S.poonkundan	<i>Deep Learning evaluation of Vehicle Number Plate detection and recognition</i>	<i>Full chapter: Printing Process.</i> Publisher: CRC T & F (Book Chapter)
7	Dr.Arun Anoop M, Dr.P.Karthikeyan	<i>Healthcare Data Analytics in Internet of Healthcare Things</i>	IoMT-IA-2021 CRC T & F Printing Process

FDPs Attended

COURSE	TOPIC	Year and Venue
FDP Infosys Campus connect	Faculty workshop on Java EE Frameworks	Dec2011 conducted SCMS College Of Engineering, Cochin.
MHRD-AICTE Sponsored FDP	<i>Bioinformatics- Algorithms, Databases and Tools" (BIOADT)</i>	11th-15th June 2012, Dept. of CSE, NIT Calicut.

IBM software Education(IBM Rational ROSS)	Object Oriented Analysis and design UML with essential Rational Software Architect	Course Code:DEV 396 , 22nd to 25th May2012 at MESCE, KUTTIPURAM
FDP	Hands on approach on Database systems	Govt.College of Engg,Sreekrishnapuram, Palakkad,kerala
FDP	Theory Of Computation	Dept. Of CSE,CIET,Coimbatore.
ATAL FDP	Cyber Security	NIT Arunachal Pradesh
ATAL FDP	Cyber Security	Dr.MGR Research education, Chennai
ATAL FDP	Cyber Security	Osmania University,Hyderabadd

Workshops/Seminars [Attended](#)

TOPIC	Venue
Artificial Neural networks and its applications	IEEE student Branch-34451,Kalasalingam University,TamilNadu.
RESEARCH TRENDS IN GRID COMPUTING	Dept. Of Computer Applications,Kalasalingam University,TamilNadu.
RESEARCH METHODOLOGY	MESCE jointly with IEEE Malabar subsection
Network simulation using NS2	Dept. of CSE,Govt. Engineering College,Trissur,Kerala.
Research Writing	Dept. Of CSE,VCET,Madurai.

TOPIC	Venue
International Seminar - Research Performance Analysis and Strategy	Department of Computer Applications, Bharathiyar University, 2016.
ISRO Sponsored Two Days National Seminar On Application Of Cognitive Radio Communication For Remote Sensing In Disaster Management	2016-17, February 2017, VCET-madurai.

SERVED
AS
RESOURCE
PERSON/
REVIEWER

1. Reviewed "Journal of Ambient Intelligence and Humanized Computing(Springer)" article.
2. Reviewed "SCI INDEXED JOURNAL".
3. Resource person "Cyber Security", Sri Raaja Raajan Engineering College, Karaikudi, India.
4. Resource person "LaTeX typesetting", Royal College of Engineering & Technology, Trissur, India
5. Resource person "SQL & PLSQL", Kristu Jayanti College, Bangalore, India.
6. Reviewed 2 CRC T&F International Journal Articles.

EXPERIENCE

- a. **May-Dec 2010, Teaching Assistant , Dept. of IT, Kalasalingam University, Krishnankoil, TamilNadu. (Subjects handled: Component Based technology)**
- b. **June 2011-May 2015 Assistant Professor, Dept. Of CSE, MES College of Engineering, Kuttipuram, Kerala. (Subjects handled: Network Security & Cryptography, Information Security, Theory of Computation, Automata and finite automata, Neural network and fuzzy).**

- c. Nov 2020-June 2021 Assistant Professor, Dept. Of CSE, Sri Sakti College Autonomus, Coimbatore. (Subjects handled: *B.Tech*: Distributed Systems, C programming, *M.Tech*: Network Management).

- d. July 2021-Dec21, Assistant Professor, Department of Computer Science, Kristu Jayanti College(Autonomous), K Narayanapura, Bangalore, Karnataka.

- e. Dec 2021-Present, Associate Professor & Head, Department of Computer Science & Engineering, Royal College of Engineering & Technology, Akkikavu, Thrissur, Kerala