

## PROFILE



**Dr.P.ANITHA.,M.C.A.,MPhil.,Ph.D.**

Professor & Head,

Dept. of Computer Applications,

K.S.R.College of Engineering, Tiruchengode

Namakkal [District], Tamil Nadu,

Mobile No .: + **91 9486091964,9080037380.**

E-mail ID : [psp03ster@gmail.com](mailto:psp03ster@gmail.com)

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### **Educational Qualification**

- ❖ Doctor of Philosophy in Science and Humanities (Computer Science) from **Anna University**, Chennai, September 2013. **Title of the thesis:** Formation, Routing over Cross Layer Design and Enrichment of Security in ZigBee Networks.
- ❖ Master Degree obtained first class with Distinction in Computer Applications from **Madras University, Chennai**.
- ❖ Bachelor Degree obtained with first class in Electronic Science from **Madras University, Chennai. (University Third Rank)**
- ❖ **Total Teaching Experience: [24.5 years]**
- ❖ **Professor and Head** at K.S.R.College of Engineering, from 22.06.2015 to till date.
- ❖ Assistant professor & Associate Professor at K.S.R.College of Engineering,Tiruchengode from 2.06.2004 to 21.06.2015.(11 Years)
- ❖ Lecturer & Assistant professor at K.S.Rangasamy College of Technology,Tiruchengode from 8.06.2001 to 31.05.2004.(3 Years)
- ❖ Lecturer at Sengunthar Arts and Science College,Tiruchengode from 8.06.1998 to 31.05.2001.(3 Years)

### **Areas of Interest**

- ❖ ZigBee Networks,Digital Image processing, Wireless sensor Networks, VLSI & Digital Signal Processing,

## Research activities

- ❖ **Vidwan-ID : 258386 (<https://ksrce.irins.org/profile/258386>)**
- ❖ Approved **Research Supervisor** under Anna University, Chennai. (**Ref.No. 2870027**)
- ❖ Acting as a **Evaluator** for M.Phil and **Ph.D.**, Thesis of :
  - Bharathiyar University
  - Periyar University
- ❖ Published book titled “**Artificial Intelligence**” , Charulatha Publications , 2022 ,ISBN NO.978-93-5577-325-8

## Google Scholar Citations:

<u>Citatie-index</u>	<u>Since 2011</u>
Citations	21
h-index	4
I10	1

## RESEARCH PUBLICATIONS:

### NUMBER OF PUBLICATIONS:

National Journal	International Journal	National Conferences	International Conferences	Workshop/Seminar/ QIP/FDP
<b>03</b>	<b>17</b>	<b>14</b>	<b>13</b>	<b>23</b>

## PAPERS PUBLISHED IN THE NATIONAL JOURNAL

1. “Security in Communication Networks”, JMASS, National Journal, Dec **2007**, pp.108 - 114.
2. P.Anitha and Dr.C.Chandrasekar(**2008**) “Securing data in Communication Network”, National Journal of Computer Applications, Volume No.1, Issue No.1, Mar 2008, pp.17-19.
3. P.Anitha and Dr.C.Chandrasekar(**2011**) “Energy aware Routing Protocol for Zigbee Networks”, National Journal of Computer Applications, Volume No.4, Issue No.3, July-Sep 2011, pp.92-94.

## PAPERS PUBLISHED IN THE INTERNATIONAL JOURNAL

- 1.P.S. Periasamy, K. Duraiswamy and P. Anitha **(2009)** " Winter filter based Image Denoising using Wavelet Packet Transform",Advances in Computational Sciences and Technology (ACST) Volume 2, Number 2 2009 .pp.243—254.
2. P.Anitha and Dr.C.Chandrasekar**(2010)** "Performance Evaluation and Comparison of routing Algorithms In Zigbee/ IEEE 802.15.4", Published in i-manager's Journal on Software Engineering, Vol.5l, No.1l July - September 2010,pp 45-50.
- 3.P.Anitha and Dr.C.Chandrasekar **(2010)** "A Comparative and Comprehensive Performance Analysis of IEEE 802.15.4 and IEEE 802.11 with different Ad hoc Routing Protocol(Literature survey)",Published in International Journal of Advances In Science And Technology, Special Issue Volume 1, Number 4, November 2010,pp 33-35.
- 4.P.Anitha and Dr.C.Chandrasekar **(2010)** "Flexible Mathematical Tool For Beacon-Enabled Zigbee Networks Organized In Different Topologies", Published in Journal of Global Research in Computer Science, Volume 1, No. 4, November 2010, ISSN-2229-371X, PP . 9 - 11.
5. P.Anitha and Dr.C.Chandrasekar **(2010)** "A Comparative and Comprehensive Performance Analysis of IEEE 802.15.4 and IEEE 802.11 with different Ad hoc Routing Protocol", Published in Journal of Computer Science(Impact factor: 0.071 in 2010), Volume 7,Issue 5,May 2011,DOI:10.3844/jcssp.2011.731.735.
6. P.Anitha and Dr.C.Chandrasekar **(2011)** "Energy Efficient Routing Algorithm for zigbee using Cross Layer Zigbee based Routing(CLZBRP) Protocol" by IJCA journal number 3 and article 5 year 2011.Digital Library URL:<http://www.ijcaonline.org/proceedings/icact/number3/3241-icact201>,ISBN:978-93-80864-45-1.
7. P.Anitha and Dr.C.Chandrasekar**(2012)**," A Framework for Configuration and Management Of Quality-Of-Service (Qos) in Wireless Zigbee Networks", paper published in WSEAS transactions on Communications. Issue 4, Volume 11, April 2012, E-ISSN: 2224-2864,pp.148-157. (Impact factor: 0.071 in 2010). **(Annexure-II)**
8. P.Anitha and Dr.C.Chandrasekar**(2012)**,"High Performance Computing in Table based Routing Protocol for wireless network using ZigBee", Published in International Journal of Advanced Computer Applications, Volume 2,Issue 1,March 2012,ISSn : 2231-251x.
9. Anitha, P., Periasamy, P.S. **(2016)**, "Energy Efficient Green House Monitoring in the Aeroponics System using Zigbee Networks", Published in Asian Journal of Research in

Social Sciences and Humanities, Volume 6, Issue 6, June 2016, ISSN : 2249-7315, pp. 2243-2250. **(Updated List)**

10. Anitha, P., Periasamy, P.S., Mohanasundaram (2016), "Optimization methods for data storage position in wireless sensor networks: A survey, Asian Journal of Information Technology, Volume 15, Issue 13, pp. 2238-2243. **(Annexure – I)**

11. Anitha, P., Periasamy, P.S. (2017), "Energy efficient routing algorithm over cross layer design and enrichment of Security in ZigBee Network", International journal of Information and Communication Technology, Vol. 10, No. 2, 2017. **(Annexure-II)**.

12. Anitha, P., Periasamy, P.S. (2018), "Security Mechanism against Sybil Attacks for High Throughput Multicast Routing in Wireless Mesh Networks", International Arab journal of Information Technology, Vol. 15, No. 6, 2018. **(Annexure-I)**.

13. Anitha, P., Dinakaran S. (2018), "A review and study on AI in health care Issues", International Journal of Scientific Research in Computer Science, Engineering and Information Technology, Volume 3, Issue 8, ISSN : 2456-3307.

14. Anitha P., Durgadevi TJB. (2020), "Modified adaptive neuro fuzzy inference system based load balancing for virtual machine with security in cloud computing environment", Journal of Ambient Intelligence and humanized computing, Volume 11, Issue 2, February 2020, ISSN: 020-01728. **(Annexure-I)**.

15. Anitha P., Dinakaran S. (2020), "Multi feature drug compound analysis model for efficient success rate prediction using fuzzy rules", Journal of Ambient Intelligence and humanized computing, Volume 11, Issue 7, July 2020, ISSN: 020-01728. **(Annexure-I)**.

16. Anitha P., Dinakaran S. (2022), "An efficient drug compound analysis using spectral deep feature classification based compound analysis model for drug recommendation", Neuroscience Informatics, Neuroscience Informatics 2 (2022).

17. Anitha P., Dinakaran S. (2022), "Radial Subset Clustering Feature-Based Deep Spectral Neural Classification for relational drug recommendation", Neuro Quantology, Volume 20, Issue 9, August 2022, ISSN: 1303-5150, page: 873-883. **(Annexure-I)**.

#### **PAPER PRESENTED AT NATIONAL CONFERENCES:**

[1] "Image Transport protocol", National conference on Computer Networks at Arunai Engineering College, on December 2003.

[2] "Enhancing the Network Routers", National Conference on Computer Networks at Sri Vasavi Arts and Science College, Erode, Feb' 02-03, 2007.

[3] "Buffering Issues in Network Based Services",on Emerging Trends In Information Technology Folgers-07 National Conference At Vivekananda College, Tiruchengode On March 3, 2007.

[4] "Security and Privacy for RFID Components in government sectors", Current Trends in Computer Applications (CTCA '08), Department of Computer Applications, Muthayammal College of Engineering.

[5] "Secure Symmetric Authentication for RFID tags", National Conference on Emerging Trends in Advanced Computing(NCETAC '08), Department of Computer Science Engineering, Sasuri College of Engineering.

[6] "Java Obfuscation Process", National Conference on Computer and Communication (NCCC '08), Department of Computer Applications, Sri Vasavi College of Arts and Science.

[7] "Two Stage Impulse Noise Detection and Reduction", National Conference on Emerging Trends in Advanced Computing (NCETAC '08), Department of Computer Science Engineering, Sasuri College of Engineering.

[8] "Image Transmission On Wireless Networks" , National Conference on Emerging Technologies in Communication, Computation and Information Technology(NETCIT'10),Department of Computer Applications, Sona College of Technology, on 26.03.2010.

[9] "Issues in Image Transmission On Wireless Networks" , National Conference on Recent Advances in Communication Engineering-RACE'10,Department of Computer Electronics and Communication Engineering, Velalar College of Engineering and Technology , on 27.03.2010.

[10] Gurusamy M., Dr.P.Anitha.,(2015)" RRE: A GAMETHEORETIC INTRUSION RESPONSE AND RECOVERY ENGINE", National conference on Emerging trends in Computer Applications EICA'15 on 7.3.2015.

[11] Ranganayagi., Dr.P.Anitha.,(2015)" Driving Pattern Recognition Using Clustering Approach" National conference on Emerging trends in Computer Applications EICA'15 on 7.3.2015.

[12] Santhiya P., Dr.P.Anitha.,(2015)" Abnormally Malicious Autonomous Systemsand their Internet Connectivity" National conference on Emerging trends in Computer Applications EICA'15 on 7.3.2015.

[13] Vinoth V.M., Dr.P.Anitha.,(2015)” Modeling and Containment of Detecting Worms”, National conference on Emerging trends in Computer Applications EICA’15 on 7.3.2015.

[14] Divyabharathi B., Dr.P.Anitha.,(2015)” Security Analysis of a Single Sign on Mechanism for Distributed Computer Networks”, National conference on Emerging trends in Computer Applications EICA’15 on 7.3.2015.

#### **PAPER PRESENTED AT INTERNATIONAL CONFERENCES:**

1. P.S.Periasamy and **P.Anitha (2008)** “Security in Communication Networks”, International Conference on Computer Networks at Loyola College , Chennai, March 01-03,2007.

2. **P.Anitha** and Dr.C.Chandrasekar(**2008**) “Securing Fairness and Congestion avoidance – Traffic Shaping and Window adjustment algorithms”, - Selected for ICETET-08 Conference Management System, G.H.Raisoni College of Engineering, Nagpur, India, July 16-18 2008.

3. P.Anitha and Dr.C.Chandrasekar(**2008**) “Fuzzy Logic based solution for the Congestion collapse problem”, International Conference on Mathematics & Computer Science at Loyola College, Chennai, July 25-26 , 2008,pp. 14-21.

4. P.S.Periasamy and P.Anitha(**2008**) “Image Denoising using Wavelet transform”, International Conference on Mathematics & Computer Science at Loyola College, Chennai, July 25-26 , 2008,pp. 109-115.

5. P.Anitha and Dr.C.Chandrasekar(**2009**) “ Virtual Routing Network Emulation Framework”, International Conference on Mathematics & Computer Science at Loyola College, Chennai, July 5-6 , 2009.

6. P.Anitha and Dr.C.Chandrasekar(**2011**) “Energy Efficient Routing Algorithm for ZigBee using Cross Layer ZigBee based Routing(CLZBRP) Protocol” International Conference on Advanced Computer Technology ,at JKK Nattraja college of Engineering and Technology, Namakkal, Tamilnadu, July 29-30,2011,pp.201.

7. P.Anitha,G.N.Pavithra and Dr.P.S.Periasamy(**2012**),” Security Mechanism against Sybil Attacks for High-Throughput Multicast Routing in Wireless Mesh Networks”,IEEE-International Conference On Pattern Recognition, Informatics And Medical Engineering (*Prime-2012*),at Periyar University,Salem,Tamilnadu,March 21-23,Page No.125-130. Article archived in IEEE Explore.

8.P.Anitha and Dr.C.Chandrasekar(**2012**) ,“Forming A Network, Analyzing And Power Aware Protocol For Zigbee Networks”, IEEE-International Conference On Advances In

Engineering, Science And Management (ICAESM -2012),AT E.G.S Pillay Engineering College, Nagapatinam, Tamilnadu, March 30-31,Page No.150-155. Article archived in IEEE Explore.

9. Parthipan S., Dr.P.Anitha.,(2015)" Time-Based Proxy-Encryption for Secure Erasure Code Based Cloud Storage System", International Conference on Recent Development in Engineering and Technology ICRDET '15 on 20.3.2015.

10. Aravinth M., Dr.P.Anitha.,(2015)" Secured Auditing System for Cloud Data Storage with Cost Guarantees", International conference on Recent Development in Engineering and Technology ICRDET '15 on 20.3.2015.

11. Dr.P.Anitha.,(2015)" Concealed Data Aggregation for Query Processing in Database as a service(DAS) model", International conference on Recent Development in Engineering and Technology ICRDET '15 on 20.3.2015.

12. Dr.P.Anitha.,(2015)" Detection and Localization of multiple spoofing attackers in wireless Networks", International conference on Advances in Emerging Technology ICAET '15 on 28.3.2015.

13.Dr.P.Anitha (2018) "Advance Teaching Technology for disable Students", International conference on IOT for smart environment on 23 February 2018 at Annai Women's College affiliated to Bharathidasan University.

#### **LIST OF QIP/WORKSHOPS/SEMINARS/FDP/FDP ATTENDED:**

1.Workshop on "Teaching Technology & Counseling Skill" conducted by the Abirami Academy, Chennai at K.S. Rangasamy College of Technology, on 14&15th September 2002.

2. UGC sponsored one day National level Workshop on "Knowledge Management", conducted by the Department of Computer Applications, SONA College of Technology, Salem, on 22<sup>nd</sup> February 2006.

3. Anna University sponsored Thirteen days Faculty Development short term course on "Software Engineering", conducted by K.S.R. College of Engineering, Tiruchengode, from 11.12.2006 to 23.12.2006.

4. "Hardware & Networking" Two days workshop conducted by Department of Computer Applications , K.S.R. College of Engineering, Tiruchengode on 24-25 March 2008.

5. "Research methodology in computer science" organized by K.S.Rangasamy college of Technology, Tiruchengode,on 11 August 2007.

6. "Excellence in technical education and research orientation program" conducted by Anna university, Coimbatore, on 7-8 June '08.
7. "Virtual private Network(VPN)" One day workshop conducted by Department of CSE,IT &MCA , K.S.R. College of Engineering, Tiruchengode on 3rd January 2009.
- 8."Qualnet" One day workshop conducted by Department of CSE, K.S.R. College of Engineering, Tiruchengode on 24th March 2009.
- 9."RFID" Two days workshop conducted by Department of MCA, K.S.R. College of Engineering, Tiruchengode from 20th October to 21st October 2009.
10. National Seminar on "Research Issues in Wireless Networks" conducted by Kongu Engineering college, Perundurai from 17.09.2010 to 18.09.2010.
- 11."NS-2"Three days workshop conducted by Department of ECE,K.S.R. College of Engineering, Tiruchengode from 23.09.2010 to 25.09.2010.
12. National Level One day Workshop on "Cloud Computing and its Research Applications", conducted by Department of CSE,K.S.R. College of Engineering, Tiruchengode on 28th January 2011.
13. Presented a paper titled "Cross layer based routing protocol for IEEE 802.15.4", in ISTE sponsored national seminar on" Research Issues in computer Science (NSRICS'11) on August 30<sup>th</sup> 2011, at MCA, KSR College of Engineering, Tiruchengode.
- 14.National Level Two days workshop on "Research Methodology and Network Simulator- 2(NS-2)", conducted by Department of MCA, KSR College of Engineering, Tiruchengode on 24th & 25th September 2011.
15. AICTE sponsored thirteen days Faculty Development Programme on "Applications of Wireless Sensor Network in industry and Consumer Electronics", conducted by Department of Electronics and Communication Engineering,K.S.R. College of Engineering, Tiruchengode, from 03.06.2013 to 15.06.2013.
16. National Level Two days workshop on "Database Management Systems", conducted by Indian Institute of Technology,Bombay, at Vidhya Vikas College of Engineering and Technology, Tiruchengode on 21st & 31st May, 2013.
- 17.National Level Workshop on "Blooms Taxonomy and its Assessments", conducted by KSR College of Engineering,Tiruchengode on 20 th March 2015.
18. National Level two week ISTE STTP Workshop on "Introduction to Design of Algorithms", conducted by IIT, Kharagpur at Vidhya Vikas College of Engineering from 25 th May to 30th May 2015.



19. One Day Seminar on “Patent Filing in India and other Countries”, conducted by KSR College of Engineering,Tiruchengode on 8<sup>th</sup> August 2016.
20. One day DST program on “Role of DST in promoting S&T echo system in India” conducted by KSR College of Engineering,Tiruchengode on 18.11.2017.
21. AICTE sponsored thirteen days Faculty Development Programme on “Engineering Challenges for smart & Digital India: Internet of Things(IOT) and Applications”, conducted by Department of Electronics and Communication Engineering,K.S.Rangasamy College of Technology, Tiruchengode, from 20.11.2017 to 01.12.2017.
22. AICTE-ISTE sponsored six days induction/refresher programme on “Total Quality Management System in Technical Education”, conducted by Sri Ragavendra Politechnic College held between July 23<sup>rd</sup> to July 28<sup>th</sup>.
23. AICTE sponsored fourteen days faculty development programme on “Success Mantra to Promote Higher Education in Digital Era: Teach to Learn and Learn to Teach”, organized by K.S.R.School of Management, K.S.Rangasamy College of Technology, Tiruchengode from July 8<sup>th</sup> to July 21<sup>st</sup>.

### **Academic Achievements:**

- Reviewer for the International Conference on Pattern Recognition, Informatics and Mobile Engineering (PRIME'13 ), Periyar University
- Reviewer for the National Journal of “Journal of Computer Applications” (ISSN:0974-1925)
- Reviewer for the National Conference on “Emerging Issues in Computer Applications” (EICA) from 2009 onwards.
- Funded project selected in the titled “RFID Access in Ration shop” by **TNSCST** 2013- 2014).
- **University Nominee**, Board of Studies, Sri Krishna College of Engineering and Technology , Coimbatore.
- Produced 100% results in 15 subjects for the past 20 years in Anna University Exams.
- Organised a Two day National Workshop on “Research and best practices in Cloud Security”, on 23rd and 24th January, 2013 at Department of Computer Applications, K.S.R College of Engineering, Tiruchengode.

- Acting as a member of **Staff Selection Committee** to recruit members of faculty at Excel group of Institutions on 25.04.2014.
- Acting as a Jury cum Invitee talk for the **National Conference on Trends in Engineering Applications and Management** at Velalar College of Engineering and Technology, Thindal on 14<sup>th</sup> March 2015.
- Acting as a **Guest speaker** for the Anna University approved seven days Faculty Development Programme titled “IT6007 – Free and Open Source Software” organized by the Department of Information Technology at KSR College of Engineering, Tiruchengode.
- Acting as a **session chair** for the **National Conference on Computer and Communication** at Vaasavi College of Arts and Science, Erode on February 3<sup>rd</sup> 2017.
- College level **NAAC** Co-ordinator.
- Reviewer for the International Journal of “**Engineering Applications of Artificial Intelligence**” Elsevier Journal.
- Acting as a **session chair** for the **National Conference on ICCT 2k8** at Muthayammal College of Arts and Science, Erode on January 24<sup>th</sup> 2018.
- Acted as a **session chair** for international conference **ICRTCT-18** at N.G.P Arts and Science College held on August 9<sup>th</sup> 2018.
- College level **NBA** Co-ordinator.
- Acted as a **session chair** for Nati **ICRTCT-18** at N.G.P Arts and Science College held on August 9<sup>th</sup> 2018.

#### **Membership in Professional Institutions:**

- Life Member in Indian Society for Technical Education
- Life Member in Computer Society of India.

#### **Details of the Winter/Summer Schools/Workshops/Seminars Organized:**

<b>Sl. No</b>	<b>Name of the Programme</b>	<b>Sponsored by</b>	<b>Acted as</b>	<b>Duration</b>
01.	Zelos 15	Arathi Educational Trust	Convener	September 2015
02.	National Conference on EICA 16	Arathi Educational Trust	Convener	February 2016

03.	Zelos 16	Arathi Educational Trust	Convener	September 2016
04.	National Conference on EICA 17	Arathi Educational Trust	Convener	March 2017
05	Zelos 17	Arathi Educational Trust	Convener	October 2017
06	National Conference on EICA 18	Arathi Educational Trust	Convener	March 2018
07	Zelos 18	Arathi Educational Trust	Convener	September 2018
08	National Conference on EICA 19	Arathi Educational Trust	Convener	March 2018
09	National Conference on EICA 20	Arathi Educational Trust	Convener	March 2020
10	National Conference on EICA 22	Arathi Educational Trust	Convener	June 2022

### **Declaration**

I hereby declare that all the information furnished above is true to my best of knowledge.

Place : Tiruchengode

**Dr. P. Anitha**

Date : 19-09-2022