Dr.A.E.Narayanan

Associate Professor& Head

Department of Computer Science and Engineering

Periyar Maniammai Institute of Science and Technology (Deemed to be University)

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## 1. A. Professional Information

| Name of Institution & Place | Duration | | Designation |
|---|---|---|---|
| Periyar Maniammai Institute of Science and Technology ,Thanjavur | February 2019 | Till date | Asso. Professor |
| Periyar Maniammai Institute of Science and Technology , Thanjavur | Dec,2017 | February 2019 | Asst.Prof.(Selection Grade) |
| Periyar Maniammai University, Thanjavur | May,2009 | Dec,2017 | Asst.Prof. |
| Periyar Maniammai University, Thanjavur | June,2008 | May,2009 | Sr.Lecturer |
| SASTRA University, Thanjavur | July,2006 | May,2008 | Lecturer |

### B. Industry Experience:

| Name of Institution & Place | Duration | | Designation |
|---|---|---|---|
| Govt. Industrial Training Institute, Govt. of Tamilnadu | June,2001 | July,2004 | Junior Training Officer |

## 2. Publications

### Journal Publications

**Citations:  61          h-index: 3          i10-index: 2**

| S.No | Title of the paper, with Journal's name, Vol. No.,  etc. | Year of Publication | Indexing | National/ International |
|---|---|---|---|---|
| 1 | Efficient Mathematical Encryption (Eme) Model For Securing Iot Device Communication, Advances in Mathematics: Scientific Journal,June,2020,Volume 9,No.5 | **June,2020** | **Scopus** | **International** |
| 2 | An  Efficient  and  Secured Communication  Scheduling Networks by Encoder and Decoder Scheme  using  Error  Correction Algorithm,  International  Journal  of Advanced  science  and  Technology ,Volume 29,N0.7 | April 2020 | **Elsevier, Scopus** | **International** |
| 3 | An Association Rule Mining Based Model to  Predict Learning Performance  of a student with e-Learning Activity Log Data, International  Journal of Innovative Technology and  Exploring Engineering  (IJITEE) ISSN:2877-3075, Vol.-9 Issue-3, PP : 2213-2220 | **January 2020** | **Scopus** | **International** |
| 4 | Trusted  Security  Mobile  Ad  hoc Network  (TS  MANET)  For Communication,  International Journal  of  Advanced  science  and Technology, Volume 29,No.5S | **January 2020** | **Elsevier, Scopus** | **International** |
| 5 | An authentication scheme for an iot environment using advanced multiple encryption  system,  International Journal  of  Innovative  Technology and  Exploring  Engineering,Volume 9,Issue 1 | 2019 | Scopus | **International** |

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| 6 | A hardy wall encrypted system for securing iot device id, International Journal of Recent Technology and Engineering,,Voulme 8,Issue 1 | 2019 | Scopus | **International** |
| 7. | Challenging issues for handling multimedia data in wireless multimedia sensor networks,Journal of Computational and Theoretical Nanoscience,,Volume 16,Issue 4 | 2019 | Scopus | **International** |
| 8. | An energy efficient clustering algorithm using harmony memory search for wireless sensor network,International Review on Modelling and Simulations,,Volume11,Issue 5 | 2018 | Scopus | **International** |
| 9 | A Survey on Hierarchical-Based Routing Protocols for Wireless Sensor Networks, International Journal of Pure and Applied Mathematics, Volume 119 No. 16 | 2018 | Scopus | **International** |
| 10 | An Energy Efficient Clustering Algorithm Using Harmony Memory Search for Wireless Sensor Network ,International Review on Modelling and Simulations, Vol. 11, N. 5 | October 2018 | Scopus | **International** |
| 11 | Tackle the deferral messages under jamming using TACT, International Journal of Applied Engineering Research, Volume 10,Isuue 7 | 2015 | Scopus | International |

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| 12 | An energy efficient cluster head selection for fault-tolerant routing in manet, International Journal of Engineering and Technology,Volume5,Issue 2 | 2013 | Scopus | International |
| 13 | New visual steganography scheme for secure banking application, Computing, Electronics and Electrical Technologies, | 2012 | Scopus | International |
| 15 | E-learning as a service: A new era for academic cloud approach, Recent Advances in Information Technology, | 2012 | Scopus | International |
| 16 | A Study of Easy Educational Data Mining for E-Learning Log Data from complex and large Dataset, International Journal of Innovations in Engineering and Technology(IJIET), Vol.11, Issue 1 | August,2018 | Peer reviewed | International |
| 17. | A Novel Educational Data Mining Model using Classification Algorithm for evaluating Students' E-learning Performance , International Journal of Computer Sciences and Engineering(IJCSE), Vol. 7(5) | May,2019 | UGC,CARE | International |
| 18. | A brief study of Semantic NET compare with current NET component ,Mathematical | January 2018 | Peer Reviewed | International |

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|---|---|---|---|---|
| | Sciences,Interneational Research Journal | | | |
| 19 | Cloud Automation: New Era of Electricity Bill Automation using GPRS and Web Interface, International Journal of Computer Applications (0975 – 8887), Volume 29– No.11 | September,2011 | Peer Reviewd | International |
| 20. | Detection and Prevention of Mycotoxin in Stored Food Grains Using Internet of t hings(IOT), Studies in Indian Place Name, Vol 40 Issue 60 | March 2020 | UGC Care Journal | National |
| 21 | Separating Reflections from Images Using Polarization Based Approach Includes Image Smoothening, International Journal of Computer Science Issues, Vol. 9, Issue 3 | May 2012 | Peer Reviewed | International |
| 22. | A Novel Message Driven Local Repair Algorithm for MANET, International Journal of Modern Trends in Engineering and Research, Volume 01, Issue 06, | December - 2014 | Peer Reviewed | International |
| 23. | Secure Electricity Bill Automation Using GPRS and Web Interface in Conjunction with Elliptic Curve Crypto-Stegano Scheme, International Journal of Computer Theory and Engineering, Vol. 4, No. 4 | August 2012 | Peer Reviewed | International |
| 24. | Tweet Segmentation And Classification For Rumor Identification Using Knn Approach, Indian J.Sci.Res. 14 (1): 102-108 | April,2017 | Peer Reviewed | International |
| 25. | Improved Steganography using MSP Method Combined with Visual Cryptography for Secure Application,CiiT,Volume 4,No 13 | 2012 | Peer Reviewed | International |

**3 . Important Faculty Development Programmes and Workshops attended:**

1.”Effective Teaching Learning of Computer Programming”, ISTE- IIT Bombay at Mumbai, Sep 29-Oct 3, 2009.

2. “Database Management Systems” Conducted by IIT Bombay at PMU thro’ A-VIEW, 13th to 23rd December 2010.

3. “Basic Electronics” Conducted by IIT Bombay at PMU thro’ A-VIEW, 28th June to 8th July, 2011.

4. “Network Programming and Security engineering” at CDAC-JNTU, Hyderabad, 11th to 22nd June, 2012

5.”Linux/Embedded Kernel and Driver Development” at CDAC-JNTU, Hyderabad, 17th to 28th November, 2008

6.”Operation and Maintenance of Tejas Networks products” at Tejas Networks Ltd,Bengaluru,09th to 13th December,2013

7.”Advanced Course on L2 Switching and Carrier Ethernet”,” at Tejas Networks Ltd, Bengaluru, 16th to 21st December, 2013

8.”National Cyber Safety &Security Standards, Summit’15’ at PES University, Bangalore, India on 11th and 12th December, 2015.

9’NKN at the core of cyber space’ conducted by National Knowledge Network (NKN) at JNTU, Hyderabad on 21st and 22nd January, 2016.

10. ‘Foundation Program on ICT in Education" (FDP101x)’ conducted by IITBombay, from 27 July 2017 to 07 September 2017.

**4 . Funded Programme Organized:**

| Slno | Programme | Tittle | Agency | Date | Amount in Lakhs |
|------|-----------|--------|--------|------|-----------------|
| 1 | National Conference | ITinDisaster Management | Ministry of Earth Sciences,GoI | 9th&10th ,March,2011 | 2.00 |
| 2 | FDP | Effective Teaching Learning of Computer Programming(Pilot Programme) | ISTE-MHRD | 14th-24th ,December,2009 | 2.5.00 |
| 3 | FDP | Effective Teaching Learning of Computer Programming | ISTE-MHRD | 28thJune-10th July,2010 | 2.8.00 |

**5. Funded Projects:**

| Slno | Tittle | Agency | Amount in Lakhs | Year | Status |
|------|--------|--------|-----------------|------|--------|
| 1 | IT enabled smart power generation in hand held devices | Tamilnadu State Council for Science and Technology (TNSCST) | 0.075 | 2015-16 | Completed |
| 2 | Detection and Prevention of Mycotoxin in food grain using IoT and Machine Learning. | Tamilnadu State Council for Science and Technology (TNSCST | 0.075 | 2019-20 | Completed |

**6. Administrative Experience:**

| Slno | Portfolio | Institution | Period | |
|------|-----------|-------------|--------|--------|
| | | | **From** | **To** |
| **1** | **Head,** Department of Computer Science and Engg. | Periyar Maniammai Institute of Science and Technology | 11-08-2017 | Till date |
| **2** | **Head** , Department of Information Technology | Periyar Maniammai University | 15-09-2015 | 10-08-2017 |
| 3 | **Direcor(i/c),**Centre of Excellence for Next Generation Networks | PeriyarManiammai University | 16-02-2015 | 15-09-2015 |
| 4 | **Nodal officer**-National Knowledge Network(NKN) | PeriyarManiammai University | 04-11-2014 | Till date |

**7.Book Written:**

1.**'Data Structures'** published by Charulatha publishers,Chennai,ISBN:13: 978-93-89970-48-7

**8. Significant Information:**

**a. Research Guidance:**

Ph.D-4 Scholars

**b.Reviewer:**

1.2nd Congress on Computer Science and Application (CCSA 2014), December 12-14, 2014, Sanya, Hainan, China
2. American Journal of Applied Sciences (Scopus Indexed)
3. Journal of Computer Science (Scopus Indexed)

**c.Certification:**

1.Certified Trainer for SDH and DWDM,Telecom Sector Skill Development Council (TSSC) of National Skill Development Council (NSDC)

2.Digital Technology Trainer,ICT Academy,Tamilnadu.

**d. Significant Presentation:**

'Secure Electricity Bill Automation using GPRS and Web Interface in Conjunction with Elliptic Curve Crypto-Stegno Scheme for Rural Electrification', Central Power Research Institute, Ministry of Power,Bangalore,December,2014.

2. "Internet of Things (IoT) :Moving towards Smarter Internet" Institute of engineers(IEI),Thanjavur chapter,on 26th September 2016

**e. Outreach:**

Appointed as Technology expert committee member for Smart City by City Corporation, Thanjavur

**f.NKN Project:**

Successfully completed National Knowledge Network (NKN) Campus LAN Enhancement project worth 65 Lakhs.