# BIO DATA

## 1. Personal Information

Name                          : Dr.R.Asokan

Designation                   : Principal,
  Kongunadu College of Engineering
  and  Technology
  Thottiam, Trichy (D.T)
  Tamilnadu, Pin:621215

E-mail id                     : asokece@yahoo.com

Phone                         :0471-277571

## 2.Educational Qualification          :

| Degree | Branch | University/College |
|---|---|---|
| B.E | ECE | Bharathiyar/ Kongu Engineering College |
| M.S | Electronics and Control | Birla Institute of Science and Technology |
| M.Tech | ECE | Pondicherry/ Pondicherry Engineering College |
| PhD | Information and Communication Engineering | Anna University Chennai/ Kongu Engineering College |

**Area of Interest : Communication Networks, Wireless Networks, Image Processing**

## 3.Teaching Experience

| Sl. No | Name of the College | Designation and Department | Experience Years |
|---|---|---|---|
| 1 | Kongunadu College of Engineering and Technology | Principal | 1 |
| 2 | Kongu Engineering College | Lecturer Assistant Professor, Professor and HoD | 12 |
| 3 | Kongu Polytechnic College | Instructor, Lecturer and HOD/ECE | 12 |

Total Experience: 25 years

### 4. Awards

1. Rajiv Gandhi Education Excellence award for Outstanding Achievements in the Field of Education by International Institute of Education and Management, New Delhi for year 2012

2. Best Community FM Radio Station in India for Community radio services in India for the year 2008.

3. Best Teacher award - during 2003 – 2004 in Kongu Engineering College.

4. Best paper award for the paper titled "Bluetooth Security Systems using VHDL'' in National conference on wireless Networks at Sri Venkateswara Engineering College, Chennai on 27.02.2004 to 28-02-2004.

5. Best Teacher award during 1996 –1997 in Kongu Polytechnic College.

## 5. Refreeship / Editorship of Journals
**Associate Editor**
Journal of Selected Areas in Telecommunications (JSAT)-Cyber journals
**Editorial Board Member**
1. International Journal of Research and Reviews in Computer Science(IJRRCS)
2. International Journal of Communication Networks and Information Security (IJCNIS)
3. Journal of Information, Information Technology and Organizations.
4. International Journal on AdHoc Networking Systems (IJANS)

**Reviewer**
1. International Journal of Ad Hoc and Ubiquitous Computing
2. International Journal of Communication Systems

**6.Books / Notes published**
One Chapter QoS routing in Mobile ad hoc networks in the Book Titled "Quality of Service Architectures for Wireless Networks: Performance Metrics and Management" Information Science Reference, USA

**7.Number of Students guided (M.E / Ph.D ) :**

M.E: 28 (completed)
PhD: 1 (Completed) 10 (under progress) –Recognized Supervisor in Anna University of Technology, Coimbatore

**8.Publications – Journals**

1. "Performance Evaluation of Weighted Round Robin Grid Scheduling" International Journal of Computer Applications, Volume 68– No.13, 34-38 April 2013.

2. "Performance Evaluation of Flat Walled Diffuser/Nozzle Micropump for Fuel Delivery in Small Gasoline Engine" Journal of Electrical Engineering, Vol. 12 No.3, pp139-147(0.97)

3. "An Efficient Detection Mechanism for Distributed Denial of Service (DDoS) Attack" International Journal of Electronics Communication and Computer Engineering Vol. 3, Issue 6 pp 1281-1285 December 2012

4. "Flow characteristics of the diffuser/nozzle micropump—A state space approach" Flow Measurement and Instrumentation- Elsevier Publications Vol.28, pp.28-34.August 2012

5. "Wireless Body Sensor Network for Bio-Gasifier Plant Operators" European Journal of Scientific Research Vol.82 No.2 (2012), pp. 143-155

6. "Efficient Zigbee Based Health Care System for Arrhythmia Detection in Electrocardiogram" European Journal of Scientific Research Vol.69 No.2 (2012), pp. 180-187

7. "Simulation and Optimization of Diffuser/nozzle Micropump" Sensors & Transducers Journal, Vol.135, No.12, December 2011

8. "Distributed Denial Of Service (DDOS)Attacks Detection Mechanism" International Journal of Computer Science, Engineering and Information Technology (IJCSEIT), Vol.1, No.5, December 2011

9. "Design and analysis of piezoactuated micropump for fuel delivery in automobiles" Journal of Scientific & Industrial Research, Vol.70, pp.448-454

10. "Performance comparison of genetic algorithm and principal component analysis methods for ECG signal extraction" International Journal Healthcare Technology and Management Vol. 12, Nos. 5/6, pp379-389 September 2011.

11. "Simulation and analysis of piezo electric actuator" International journal of Micro and Nano System, Vol.2, No.1,Jan to June 2011

12. "Impact of Node Density and Pause Time on the Performance of Ad Hoc Routing Protocols" GESJ: Computer Science and Telecommunications, Vol.4 No.27, 2010

13. "Quality of Service Routing Using Path and Power Aware Techniques in Mobile Ad Hoc Networks" Journal of Computer Systems, Networks, and Communications Article ID 160574, 7 pages doi:10.1155/2008 /160574, 2008

14. "Performance Evaluation of Energy and Delay Aware Quality of Service (QoS) Routing Protocols in Mobile Adhoc Networks" International Journal of Business Data Communications and Networking, Vol. 4, No.1,pp 52-63, 2008.

15. "Creating awareness through CR" i4d magazine, October 2008.

16. "Ant Based Dynamic Source Routing Protocol to Support Multiple Quality of Service (QoS) Metrics in Mobile Ad Hoc Networks" International Journal of Computer Science and Security, volume (2) issue (3) pp.48-56, 2008

17. "Performance Analysis of Quality of Service Enabled Temporally Ordered Routing Algorithm using Ant Colony Optimization in Mobile Ad hoc Networks " Journal of Advances in Engineering Science , Sect. C (2)pp.11-18. 2008

18. "An Approach for Reducing the End-to-end Delay and Increasing Network Lifetime in Mobile Adhoc Networks" International Journal of Information Technology vol. 4, No. 2 , pp.121-127,2007.

19. "A Swarm-based Distance Vector Routing to Support Multiple Quality of Service (QoS) Metrics in Mobile Adhoc Networks" Journal of Computer Science, Vol.3, No.9, pp.700-707, 2007.

## 9. Publications – International Conferences

1. "ECG De-Noising Based On Hybrid Technique" International Conference on Advances in Engineering, Science and Management (IEEE-ICAESM 2012) Organised by. EGS Pillay Engineering College from 30.03.12 to 31.03.12

2. "Performance Evaluation of EDNR in Zone Routing Protocol" International Conference on Adaptive Technologies for Sustainable Growth (ICATS-2011), organized by Paavai Engineering College, Namakkal, from 16.06.11 to 18.06.11.

3. "Genetic AODV for Shortest Path Routing Problem in Mobile Adhoc Network" International Conference on Adaptive Technologies for Sustainable Growth (ICATS-2011), organized by Paavai Engineering College, Namakkal, from 16.06.11 to 18.06.11.

4. "Implementation of Multimedia Conferencing in ZRP/FSR Routing Protocols" International Conference on Intelligent Information Systems and Management organized by RVS College of Engineering and Technology from 10.06.10 to12.06.10.

5. "Performance Comparison of Genetic Algorithm and Principal Component Analysis methods for ECG signal extraction" International Conference on Recent advancements in Electrical Sciences(ICRAEC'10) organized K.S.R. College of Engineering, Tiruchengode from 8.01.10 to 9.01.10.

6. "An Overview of Classical, Fuzzy and Wavelet based Approaches for Noise Removal in Digital Images International Conference on Recent advancements in Electrical Sciences (ICRAEC'10) organized K.S.R. College of Engineering, Tiruchengode from 8.01.10 to 9.01.10.

7. " A Review of Quality of Service (QoS) Routing Protocols for Mobile Ad hoc Networks" International Conference on Wireless Communication and Sensor Computing (ICWCSC 2010) organized by SSN College of Engineering, Chennai from 02.01.10 to 04.01.10.

8. "Performance Comparison of Reactive Routing Protocols using Energy Metric in Mobile Ad hoc Networks" International Conference on Computing, Communication and Networking (ICCCN 2008) organized by Chettinad college of Engineering, Karur on 18.12.08, to 20.12.08.

9. "Performance Enhancement of Dynamic Source Routing using Simulated Annealing in Mobile Ad hoc Networks" International Conference on Computing ,Communication and Networking (ICCCN 2008) organized by Chettinad college of Engineering , Karur on 18.12.08, to 20.12.08.

10. "Performance Evaluation of Quality of Service (QoS) Enabled Temporally Ordered Routing Algorithm in MANETs" at International Conference on Resource Utilization and Intelligent Systems INCRUIS2k8 organized by Kongu Engineering College, Perundurai 3.01.08 to 4.01.08.

11. "Delay and Throughput Aware Proactive QoS Routing in Mobile Ad hoc Networks" at International conference on Advanced Communication Systems (ICACS 2007) organized by Government College of Technology, Coimbatore 10.01.07 to 12 .01.07.

12. "Design and analysis of proxy discovery routing in mobile ad hoc networks" at International Symposium on Ad Hoc and Ubiquitous Computing (ISAHUC'06) organized by National Institute of Technology Karnataka, Surathkal from 20.12.06 to 23.12.06.

13. "Congestion control in ATM Networks-Performance analysis of BECN scheme" International Conference DAMS 2003 organized by Coimbatore Institute of Technology Coimbatore from 06.01.03 to 08.01.03

## 10.Publications – National Conferences

1. "QoS Assurance in Shadow Fading Environments through Admission control using DSR in MANETS." National conference on Information Technology organized by Pondicherry Engineering College on 15.02.2012

2. "Route Stability Based QoS routing in mobile ad hoc Networks Using DSR Protocol" National conference on Information Technology organized by Pondicherry Engineering College on 15.02.2012

3. "Implementation of Route Lifetime prediction algorithm in Zone Routing protocol" 4th National Conference on Recent Trends in Information Technology organized by Bannari Amman Institute of Technology from 08.04.11 to 09.04.11.

4. "Predicting Route Life Time in Dynamic AODV Protocol" National Conference on Information and Network Management (NCINM 2011) organized by Thiagarajar College of Engineering, Madurai from 17.03.11 to18.03.11.

5. "Performance Evaluation of AODV Protocol for predicting the Route Lifetime in MANETs" National Conference on Innovations in Information Technology organized by (NCIIT'11) Bannari Amman Institute of Technology, Sathy on 24.02.11

6. "An Energy Efficient link Reversal algorithm for Mobile ad hoc Networks" National Conference on Signal Processing and VLSI Design organized by Anna University Coimbatore from 7.5.10 to 8.5.10

7. "RANDOMCAST: An Energy Efficient Communication Scheme for Mobile Ad hoc Networks" National Conference on High Performance Computing organized by GCE Tirunelveli on 7.4.10.

8. "Power aware Communication scheme Using AODV Protocol in MANETS" Second National Conference on Recent Trends in Communication, Computation and Signal Processing organized by Amritha University , Coimbatore. From 26.3.10 to 27.3.10.

9. "Performance Comparison of Hybrid protocols for Multimedia Conferencing in MANETs" National Conference on Emerging Trends in Information Technology and Communication Systems, organized by Velammal Engineering College on 5.3.10

10. "Information Security and Cyber Crime" at National Conference on Systemic, Cybernetics and Informatics organized by Kongu Engineering college from 23.10.09 to 24.10.09.

11. "Design of optimized QoS in MANET using Simulated Annealing" at National Conference on Computing and Communication Technologies on 21.03.09.

12. "Implementation of Zone Routing Protocol in MANETs" at National Conference on Computing and Communication Technologies on 21.03.09

13. "Design of optimized QoS of mobile ad hoc networks using Zonal Routing Protocol" at National Conference on Innovations in Communications and Computing organized by SNS college of Technology on 06.03.09

14. "Ant Colony Optimization of QoS routing for MANETS with multiple metrics" at National conference on Recent Trends in Advanced Computing (RTAC2008) organized by Thiagarajar College of Engineering, Madurai on 17.04.08.

15. "Design and Implementation of Optimized Multiple QoS routing Metrics MANETs" at National Conference on Optimization Techniques in Engineering Sciences and Technologies organized by Bannari Amman Institute of Technology, Sathyamangalam on from 27.03.08 to 28.03.08.

16. "Optimization of QoS Routing for MANETs with Multiple Metrics" at National Conference on Emerging Trends in Computer Science and Engineering ETICSE'08 organized by K.S.Rangasamy College of Technology on 20.02.08.

17. "The Perspectives, the Problems and the Progress of Rural Community Radio" at Community Radio India 2007 section of e-India 2007 organized by Government of India ,New Delhi  31.07.07 to 03.08.07

18. "Optimization of Multiple QoS routing Metrics in MANETs using Self healing Techniques" at National Conference on Recent Trends in Electrical Engineering  organized by K.S.Rangasamy College of Engineering, Tiruchengode from 28.03.07 to 29.03.07.

19. "Optimizing Multiple QoS Routing parameters in MANETs using Ant Colony Meta-heuristic" at NCVTT O7 organized by Government College of Technology, Coimbatore from 8.03.07 to 9.03.07

20. "Optimized Quality of Service routing in mobile ad hoc networks" at National Conference on Computational Intelligence and Network Security organized by Vivekananda College of Engineering for Women on 07.03.07

21. "A Swarm-Based Routing Algorithm to Optimize Multiple QoS Metrics in MANETs" at National Conference on  Modeling Analysis and Simulation of Computers and Telecommunication Systems (MASCOT '07) organized by Government College of Engineering, Salem from 01.03.07 to 02.03.07.

22. "Optimization of Multiple QoS routing Metrics in MANETs using Swam Intelligence" National Conference on Information and Communication Technology organized by Periyar Maniammai College of Technology for Women  Thanjavur  on 8.02.07.

23. "Performance evaluation of integrated mobile ad hoc and cellular networks using GPSR" at Third National conference on Advances in Electronic communication (ADELCO 2006) at National Engineering College, Kovilpatti  on 06.04.2006

24. "Design and performance evaluation of mobile adhoc network using QOLSR protocol" at National conference on intelligent integrated control and automation organized by Coimbatore   Institute of Technology, Coimbatore from 10.02.06 to11.02.06.

25. VLSI implementation of High speed Ethernet Switch" at National Conference on Bio signal, Communication and Networking organized by SSN College of Engineering, Chennai from 18.03.05 to 20.03.05.

26. "Design and Performance comparison of Network reliable routing protocol in Mobile ad hoc Networks" at Second National Conference on Modern Trends in Instrumentation systems(NCEIS 2005) organized by Government College of Technology, Coimbatore from 09.03.05 to10.03.05.

27. " "FPGA based high speed Ethernet switch' at First National conference on Emerging Technologies in Electrical Systems (ETES 2005) organized by Noorul Islam College of Engineering on 11.3.05

28. "Integration of ad hoc network with wireless LAN" at National level I.T conference on Web Technology and Open Source organized by Jaya Engineering College from 12.02.05 to 13.02.05

29. "Design and Performance analysis of Proxy based indirect routing in mobile adhoc Networks " in the national conference  CONCOURSE 2005 in Eswari Engineering College on 22.01.05

30. "Bluetooth Security  systems using VHDL" National  conference on  Wireless  Networks at Sri Venkateswara Engineering College on 27.02.04  to 28.02.04

31. "A Key distribution for  IEEE  802.11  encryption   keys" Second  National  Conference   on Mathematical  and  Computational   Model  (NCMCM 2003)  organized by PSG Tech   from 11.12.03 to12.12.03

32. "Security implications on quantum technologies an overview" Second National  Conference   on Mathematical  and  Computational   Model  (NCMCM 2003)  organized by PSG Tech   from 11.12.03 to12.12.03

33. "Security analysis of RSA cryptographic algorithm" at XXXVII CSI National Convention - 2002 Organized by Computer Society of India, Bangalore Chapter from on 29.10.02 to 31.10.02.

34. "Security aspects of Mobile IP" at XXXVII CSI National Convention -2002 Organized by Computer Society of India, Bangalore Chapter from 29.10.02 to 31.10.02

35. "Security in Wireless Local Area Networks"- at National conference on Excellence through IT organized by CSI, Lucknow on 14.05.02 to15.05.02.

36. "Elliptic Curve Cryptography-An Overview" at National Conference on Signals, Systems and Security (NCSSS 2002) organized by PSG Tech from 01.03.02 to 02.03.02.

37. "Congestion control in ATM Networks.-An unified approach" at National Conference on Signals, Systems and Security (NCSSS 2002) organized by PSG Tech from 01.03.02 to 02.03.02.

38. "Secure Transactions Using Smartcards and Bio-metrics" at National Conference on Signals, Systems and Security (NCSSS 2002) organized by PSG Tech from 01.03.02 to 02.03.02.

39. "Secured Wireless Communication between PCs using Cryptographic DES algorithm "at National Conference on Mathematical and Computational Model (NCMCM 2001) organized by PSG Tech from 27.12.01 to 28.12.01

40. "Performance Evaluation of Ethernet as control networks." at National Conference on Mathematical and Computational Model (NCMCM 2001) organized by PSG Tech from 27.12.01 to 28.12.01

41. "A Novel Cryptographic algorithm for smart card security" at National Conference on Mathematical and Computational Model (NCMCM 2001) organized by PSG Tech from 27.12.01 to 28.12.01

42. "E-Security –A unified approach" at National conference on mobile computing organized by CSI-Hyderabad from11.12.01 to 12.12.01.

43. "WIRELESS LAN – COMMUNICATION" at All India Seminar on Information Technology organiased by Institution of Engineers at Thiyagarajar College of Enginnering Madurai on 25.02.2000.


## 11. Professional Society Membership:

1. Fellow Member :IETE
2. Life Member :ISTE
3. Life Member :ACS
4. Member : CSI