Dr. A Kathirvel., B.E., M.E., Ph.D.,

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Career objective

❑ Research work in the field comparable with the best in the world.
❑ To lead a research and development department in a good academic institution or firm of good repute.

Educational qualifications

SNo	Course	University	Class	Year
1	**Ph.D.,** **(Computer Science and Engineering)**	Anna University		Feb 2010
2	**M. E.,** **(Computer Science and Engineering)**	University of Madras	76% FIRST	Nov 2002 (UNIV.RANK)
3	**B. E.,** **(Computer Science and Engineering)**	University of Madras	70% FIRST	May 1998

Professional Experience

❑ Janaury 2013 – till date. **Vivekanandha College of Engineering for Women**, Namakkal. **Professor and Head** - Department of Information Technology.
❑ February 2011 – Janaury 2013. **Karpaga Vinayaka College of Engineering and Technology**, Madurantakkam. **Professor and Head** - Department of M.E Computer Science and Engineering.
❑ November 2010 – January 2011. **Tagore Engineering College**, Chennai. **Professor** - Department of Computer Science and Engineering.
❑ April 2009 – October 2010. **BS Abdur Rehman University**, Chennai. Assistant Professor - Department of Computer Science and Engineering.
❑ Jan 2006 – April 2009. **BSA Crescent Engineering College**, Chennai. Senior Lecturer - Department of Computer Science and Engineering.
❑ December 2000 – Jan 2006. **BSA Crescent Engineering College**, Chennai. Lecturer – Department of Computer Science and Engineering.
❑ June 1998 – November 2000. **Thangavel Engineering College**, Chennai. Lecturer – Department of Computer Science and Engineering.

Awards Received

- Who's who in the world – Twenty ninth Edition, 2012
- University Rank (Seventh)
- Best Project Award in Post-Graduation
- BSA Outstanding Undergraduate Teaching Award, 2008 and 2009

- BSA Outstanding Postgraduate Teaching Award, 2010
- Outstanding Reviewers Award – International Journal of Engineering and Technology, Singapore, 2011
- KVCET Best Teacher Award, 2011 and 2012

Journals – International & National

1. S.Navaneethan, and Dr.A. Kathirvel, "A Data Packet Transmission Authentication using Multicast Routing Protocol", International Journal of Advanced and Innovative Research, Vol. 2, No. 7, 2013, pp. 226 – 231.

2. S.B.Manoojkumaar, and Dr.A. Kathirvel, "Faulty Node Detection in Multirate any path Routing Protocol in Multi-Hop Wireless Networks", International Journal of Engineering and Computer Science, Vol. 2, No. 9, 2013, pp. 2698 – 2701.

3. Dr. A.Kathirvel, and Dr. R. Srinivasan, "Double Umpiring System for Security of Mobile Ad Hoc Network", International Journal of Wireless Network and Applications, Vol. 1, No. 2, 2011, pp. 151 - 162.

4. Dr. A.Kathirvel and Dr. Rajabushanam, "System of One to Three Umpire Security System for Wireless Mobile Ad hoc Network", Journal of Computer Science, Vol. 7, No. 12, 2011, pp. 1854 – 1858.

5. Dr. A.Kathirvel, M. Subramaniam and Dr. Rajabushanam, "Burglar Detecting System for Wireless Mobile Ad hoc Network", European Journal of Scientific Research, Vol. 62, No. 1, 2011, pp. 14 – 23.

6. Dr. A.Kathirvel and R.Vetriselvi, "Robustness of Self Umpiring System for Security in Wireless MANETs", Indian Journal of Information Science and Technology, Vol. 6, No. 2, 2011, pp. 1 – 16.

7. Dr. A.Kathirvel and M. Subramaniam, "Power and Mobility Aware Protocol for Wireless MANETs", Indian Journal of Information Science and Technology, Vol. 6, No. 2, 2011, pp. 39 – 49.

8. Dr. A.Kathirvel and M. Subramaniam, "Hidden Terminal Detection in IEEE 802.11b based MANETs", Indian Journal of Computing Technology, Vol. 6, No. 1, 2011, pp. 1 – 14.

9. Dr. A.Kathirvel and P.Sivaraman, "Double Umpiring System for Ad Hoc Wireless Mobile Network Security", The International Journal of Forensic Computer Science, Vol. 5, No. 1, 2011, pp. 22 – 29.

10. Dr. A.Kathirvel, "Single Umpiring System for Security and Performance Improvement in Mobile Ad Hoc Networks", The IASMS Journal of Business Spectrum, Vol. IV, No. 2, July 2011, pp. 30 - 41.

11. A.Kathirvel, and Dr. R. Srinivasan, "ETUS: An Enhanced Triple Umpiring System for Security and Performance Improvement of Mobile Ad Hoc Networks", International Journal of Network Management, John Wiley & Sons, Vol. 21, No. 5, September/October 2011, pp. 341 - 359.

12. A.Kathirvel, and Dr. R. Srinivasan, "ETUS: An Enhanced Triple Umpiring System for Security and Robustness of Mobile Ad Hoc Networks", International Journal of Communication Networks and Distributed Systems, Inderscience, Vol. 7, Nos.1 / 2, 2011, pp. 153 – 187.

13. A.Kathirvel, and Dr. Rajabushanam, "Survey of Wireless Manet Application in battlefield operations", International Journal of Advanced Computer Science and Application, Vol. 2, No. 1, January 2011.

14. A.Kathirvel, and Dr. R. Srinivasan, "Double Umpiring System for Security in Wireless Mobile Ad Hoc Networks", International Journal of Research and Reviews in Computer Science, Vol. 1, No. 4, 2010, pp. 17 – 22.

15. A.Kathirvel, and Dr. R. Srinivasan, "Analysis of Propagation Model using Mobile Ad Hoc Network Routing Protocols", International Journal of Research and Reviews in Computer Science, Vol. 1, No. 1, 2010, pp. 7 – 14.

16. A.Kathirvel, and Dr. R. Srinivasan, "Self Umpiring System for Security in Wireless Mobile Ad-Hoc Network", Journal of Wireless Sensor Network, Vol. 2, No. 3, 2010, pp 264 – 266.

17. A.Kathirvel, and Dr. R. Srinivasan, "Enhanced Self Umpiring System for Security using Salvaging Route Reply", International Journal of Computer Theory and Engineering, Vol. 2, No. 1, 2010, pp. 129 – 134.

18. A.Kathirvel, and Dr. R. Srinivasan, "A System of Umpires for Security of Wireless Mobile Ad Hoc Network", International Arab Journal of e-Technology, Vol. 1, No. 4, 2010, pp 129 – 134.

19. A.Kathirvel, and Dr. R. Srinivasan, "Enhanced Triple Umpiring System for Security and Performance Improvement in Wireless MANETS", International Journal of Communication Networks and Information Security, Vol. 2, No. 2, 2010, pp. 77 – 84.

20. A.Kathirvel, and Dr. R. Srinivasan, "Self_USS: A Self Umpiring System for Security in Mobile Ad-Hoc Network", International Journal of Engineering and Technology, Vol. 2, No. 2, 2010, pp. 196 – 203.

21. A.Kathirvel, and Dr. R. Srinivasan, "A Study on Salvaging Route Reply for AODV Protocol in the Presence of Malicious Nodes", International Journal of Engineering and Technology, Vol. 1, No. 2, 2009, pp. 151 – 155.

22. A.Kathirvel, and Dr. R. Srinivasan, "Performance Analysis of Propagation Model using Wireless Mobile Ad hoc Network Routing Protocols", International Journal of Wireless Communication, September 2009.

23. A.Kathirvel, and Dr. R. Srinivasan, "A System of Umpires for Security of MANET", International Journal of Networking and Communication Engineering, May 2009.

24. A.Kathirvel, and Dr. R. Srinivasan, "Single Umpiring System for Security of Mobile Ad Hoc Networks", Journal of Advances in Wireless and Mobile Communications, Vol. 2, No. 2, 2009, pp. 141 – 152.

25. A.Kathirvel, and Dr. R. Srinivasan, "Triple Umpiring System for Security of Mobile Ad Hoc Networks", International Journal of Engineering and Information technology, Vol 1, No 2, pp. 95 – 100, 2009.

26. A.Kathirvel, and Dr. R. Srinivasan, "Global Mobile Information System Simulator in Fedora Linux", ACM Computer Commucation Review, 2009.

27. A.Kathirvel and M.Subburamani. Simulation of Interactive Voice Response System over Mobile Phone. Indian Journal of Information Science and Technology, Vol. 1, No. 1, 2005, pp. 27 – 32.

28. A.Kathirvel and M.Subburamani. Knowledge Management an Overview. Indian Journal of Information Science and Technology, Vol. 1, No. 2, 2005, pp. 56 – 60.

Conferences– International & National

1. J.P. Josh Kumar and Dr. A.Kathirvel, "Performance Improvement of Security Attacks in Wireless Mobile Ad Hoc Networks", International Conference on Communications, Networking and Signal Processing (ICCNASP), VIT University, Vellore, 2013.

2. Dr. A.Kathirvel, and Liji Sara Varghese, "High Throughput Multicast Routing in Wireless Mesh Network using Rate Guard Scheme", National Conference on Current Trends in Computing, (NCCTC), 2012.

3. Dr. A.Kathirvel, M.S.Bagavathiammal and M.Minhajunnisa, "Mobile camera as WebCam Through Bluetooth as Connection Interface", National Conference on Recent Trends in Communication and Signal Processing, (NCRTCSP), 2012.

4. Dr. A.Kathirvel, M.S.Bagavathiammal and M.Minhajunnisa, "Challenges in Vehicular Ad Hoc Network", National Conference on Recent Trends in Computer and Application, (NCRTCA), 2012.

5. Dr. A.Kathirvel and O.Sandhya, "Trust Management in MANET", National Conference on Recent Trends in Information Security (NCRTIS), 2012.

6. Dr. A.Kathirvel, P.Sivaraman, Vetriselvi and M.Subramaniam, "Application of Mobile Banking in Today's Scenarios", International Conference on Biomedical Instrumentation, Engineering and Environmental Management (ICBEEM), 2011.

7. Dr. A.Kathirvel and Anju Mary Joseph, "Dynamic Approach Of Using RPCM In Wireless Networks", Third National Conference on Computing and Communication Technologies (N3CT), 2011.

8. Dr. A.Kathirvel and Saranya George, "Innovative Approach Of Using A Timeserving Routing Technique In Hybrid Wireless Networks", Third National Conference on Computing and Communication Technologies (N3CT), 2011.

9. Dr. A.Kathirvel, N.K. Sethu and R.H.Aswathy, "Robustness of Self Umpiring System for Security in Wireless Mobile Ad Hoc Networks", National Multiconference on Innovative Computing Technology, 2011.

10. Dr. A.Kathirvel, V. Rajasekar and E.Kathirvel, "Power and Mobility Aware Protocol for Wireless Mobile Ad Hoc Networks", National Multiconference on Innovative Computing Technology, 2011.

11. S J Sultanuddin, P V Gopirajan and Dr. A.Kathirvel, "Wireless Sensor Network for Liquid and Gas Field Pipeline Monitoring", National Multiconference on Innovative Computing Technology, 2011.

12. Dr. A.Kathirvel, N.K. Sethu and R.H.Aswathy, "Robustness of Self Umpiring System for Security in Wireless Mobile Ad Hoc Networks", National Multiconference on Innovative Computing Technology, 2011.

13. P.S. Sheik Uduman, A.Kathirvel, S.Srinivasan, A.Shaik Abdul Khadir and S. Rajasekaran, "Fractal Based Feature Extraction Method", International Conference on Mathematical Applications in Engineering

(ICMAE), Kuala Lumpur, Malaysia, 2010.

14. A.Kathirvel and P.N. Renjith, "Trust Evaluation Based Routing Solution for Ad Hoc Networks" Sixth National Conference on Webtechnology and Open Source (WEBTOPS), 2010.

15. A.Kathirvel and P.Varalakshmi, "On Demand Secure Route Recovery using AODV Routing" National Conference on Intelligent Information and Distributed Computing (NCIIDC), 2010.

16. A.Kathirvel and P.Varalakshmi, "Detecting Black Hole Attack in Mobile Ad Hoc Networks" National Conference on Intelligent Information and Distributed Computing (NCIIDC), 2010.

17. A.Kathirvel, R. Sudha and R.M. Devanai Sundaram, "A System of Tool for Identifying Ragas Using MIDI," IEEE Second International Conference on Computer and Electrical Engineering, Dubai, UAE, Vol. 2, 2009, pp. 644 – 647.

18. A.Kathirvel, and P.Vinoth. Secure Co-operation in Autonomous MANET. Second National Conference on Emerging Trends in Engineering & Technology (SNCETET), 2009.

19. A.Kathirvel, and B.Palanisamy. Enhancing Security by Multipath Routing in MANET. Second National Conference on Emerging Trends in Engineering & Technology (SNCETET), 2009.

20. A.Kathirvel and Dr.R.Srinivasan. Enhanced Salvaging Route Reply for Mobile Ad Hoc Networks with Malicious Nodes. International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE), University of Bridgeport, Bridgeport, USA, 2008.

21. A.Kathirvel and Dr.R.Srinivasan. Performance Enhanced Approach to Tolerating Route Errors in MANET. World Congress on Science, Engineering and Technology (WCSET) Vienna, Austria, 2008.

22. A.Kathirvel, Muthurajkumar.S and T.Nagamalar. An Optimized Polymorphic Hybird Multicast Routing Protocol for MANET. National Conference on Research, Information and Technology (NCRICT), 2008.

23. A.Kathirvel. Adaptive on-demand routing using AHR mechanism. National Conference on Software, Telecommunications and computer networks(SOFTCOM), 2007.

24. A.Kathirvel and M.Subburamani. Enhancement of Knowledge Management an Overview. National Conference on Software, Telecommunications and computer networks(SOFTCOM), 2007.

25. A.Kathirvel, S.Subburam and Dr.R.Srinivasan. QOS Improvement of On-demand Routing Protocols in MANET. Sixth IASTED International Conference on Wireless Networks and Emerging Technologies (WNET), Banff, Canada, 2006.

26. A.Kathirvel and Dr.R.Srinivasan. Reactive Route Recovery for Link Failure in MANET. IEEE National Conference on Information and Communication Convergence (IEEE ICC), 2006.

27. A.Kathirvel, S.Subburam and Dr.R.Srinivasan. Performance Enhancement of On-Demand Routing Protocols in Mobile Ad-Hoc Networks. Second National Conference on Innovations in Information and Communication Technology (NCIICT), 2006.

28. A.Kathirvel and S.Subburam. A System for Singer Voice Apperception. National Conference on Emerging Technologies and Applications (ETA), 2005.

29. A.Kathirvel and S.Subburam. Multimedia Based Gender Voice Recognition. National Conference on

Emerging Technologies and Applications (ETA), 2005.

30. A.Kathirvel. An Interactive Based Tamil Speech Recognizer. National Conference on Distributed and Knowledge (NCDK), 2005.

31. A.Kathirvel, B.Kathiravan and P.Selvaraj. Simulation of Rate Based Congestion Control for High Speed ATM Network. International Conference on Soft Computing (INCSC), 2004.

32. A.Kathirvel and S.Subburam. Study of QoS Routing Protocols for the Mobile Ad-Hoc Network. National Conference on Emerging Trends in Engineering and Technology (ETET), 2004.

33. A.Kathirvel and Dr.R.Srinivasan. Mobile Banking an Overview. National Seminar on Emerging Technologies and Applications (ETA), 2004.

34. A.Kathirvel, N.Prakash. Interactive Multimedia for Asai-Based Talker System for Tamil Text. National Seminar on Emerging Technologies and Applications (ETA), 2004.

35. A.Kathirvel, N.Prakash and M.Subburamani. Asai Based Parser for Determining Phrase Boundaries for Text-To-Speech Synthesis. Kempelen Farkas Speech Research Laboratory Research Institute for Linguistics Hungarian Academy of Sciences, Budapest (Hungary), 2004.

36. A.Kathirvel and S.Subburam. Quality of Service requirements to mobile ad hoc network. National Conference on Network (NCON), 2003.

37. A.Kathirvel and P.Selvaraj. An Analysis of High Speed Internet Traffic for Quality of Service (QoS). National Conference on Network (NCON), 2003.

Citation in Refereed Journals and Conference Proceedings

1. Shivlal Mewada, Umesh kumar Singh and Pradeep Kumar Sharma, "Simulation Based Performance Evaluation of Routing Protocols for Mobile Ad Hoc Networks", International Journal of Computer Science and Information Technology and Security, Vol. 2, No. 4, pp. 728 – 732, August 2012.

2. Rachit Jain and Laxmi Shrivastava, "Study and Performance Comparison of AODV and DSR on the basis of Path Loss Propagation Models", International Journal of Advanced Science and Technology, Vol. 32, pp. 45 – 52, July 2011.

3. Swetha G, Rajesh Reddy D and Dhanalaxmi B, "Performance Evaluation of TCP and UDP over FSR, DSR and ZRP in MANETs", International Journal of Computer Networks and Wireless Communications, Vol. 2, No. 4, pp. 726 – 732, August 2012.

4. Rachit Jain and Laxmi Shrivastava, "Performance Analysis of Path Loss Propagation Models in Wireless Ad Hoc Network", International Journal of Research and Reviews in Computer Science (IJRRCS), Vol. 2, No. 3, pp. 822 – 826, June 2011.

5. Novarun Deb, Manali Chakraborty and Nabendu Chaki, "The Evolution of IDS Solutions in Wireless Ad Hoc Networks to Wireless Mesh Networks", International Journal of Network Security & Its Applications (IJNSA), Vol.3, No.6, pp. 39 – 58, November 2011.

6. Ganesh S and Amutha R, "Efficient and Secure Routing Protocol for Wireless Sensor Networks Through Optimal Power Control and Optimal Handoff Based Recovery Mechanism", Journal of Computer Networks and Communications, Vol. 1, pp. 1 – 8, 2012.

7. Nassef L, "On the effects of fading and mobility in on-demand routing protocols" Egyptian Informatics Journal, Vol. 11, pp. 67–74, 2010.

8. Devi Aruna. D and Subashini. P, "Analysis of Different Propagation Model for IPSec-LANMAR Routing Protocol to Secure Network Layer for MANET in Emergency Area Environment", International Journal of Computer Science and Technology (IJCST), Vol. 2, No. 4, pp. 295 - 298, December 2011.

9. Deepak Kumar and Yogesh Yadav, "Intrusion Detection in MANETS", International Referred Research Journal, Vol. II, No. 20, pp. 82 - 83, May,2011.

10. Mukesh Krishnan M.B. and Sheik Abdul Khader P,"Fuzzy Based Security Model to Detect Compromised and Selfish Nodes to Mobile AD HOC Network", European Journal of Scientific Research, Vol. 86, No. 4, pp.520-524, September, 2012.

11. Hemant kumar sharma, sanjeev Sharma, and Krishna Kumar Pandey, "Survey of propagation Model in wireless Network", International Journal of Computer Science Issues (IJCSI), Vol. 8, Issue 3, No. 2, pp. 468 - 472, May 2011.

12. Chitra Kiran N and Narendra Kumar G, "Modelling Efficient Process Oriented Architecture for Secure Mobile Commerce Using Hybrid Routing Protocol in Mobile Adhoc Network", International Journal of Computer Science Issues (IJCSI), Vol. 9, Issue 1, No 2, pp. 311 - 321, January 2012.

13. Manjunath Gadiparthi, Ramakrishna Paladugu, Sudhakar Paladugu, and Muralidhar Vejendla,"A Fuzzy QOS Key Base Secured MANET Routing with Multipath Data Fragmentation (FQKSMR)", International Journal Computer Technology Application, Vol 2, No. 3, pp. 655-665, 2011.

14. Deepinder Singh Wadhwa and Tripatjot Singh Panag, "Performance Comparison of Single and Multipath Routing Protocols in Adhoc Networks", International Journal Computer Technology Application, Vol 2, No. 5, pp. 1486 - 1496, 2011.

15. Hemant Kumar Sharma, Santosh Sahu and Sanjeev Sharma, "Enhanced Cost231 W.I. Propagation Model in Wireless Network", International Journal of Computer Applications, Vol. 19, No.6, pp. 36 - 42, April 2011.

16. Sathish S, Thangavel K and Boopathi S, "Performance Analysis of DSR, AODV, FSR and ZRP Routing Protocols in MANET", MES Journal of Technology and Management, Vol. II, No. 1, pp. 57 - 60, 2011.

17. Novarun Deb, Manali Chakraborty, and Nabendu Chaki, "A State-of-the-art Survey on IDS for Mobile Ad-Hoc Networks and Wireless Mesh Networks", MES Journal of Technology and Management, Vol. II, No. 1, pp. 117 - 128, 2011.

18. Claudio Greco and Marco Cagnazzo,"A cross-layer protocol for cooperative content delivery over mobile ad-hoc networks", International Journal of Communication Networks and Distributed Systems, Vol. 7, No.1/2, pp. 49 - 63 , June 2011.

19. Yiming Ji,"Indoor localisation robustness and performance improvement", International Journal of Communication Networks and Distributed Systems, Vol. 7, No.1/2, pp. 64 - 80, June 2011.

20. Mohd Rafiqul Islam, Mohd Toufiq Hasan and Ashaduzzaman G.M,"An architecture and a dynamic scheduling algorithm of grid for providing security for real-time data-intensive applications", International Journal of Network Management, Vol. 21, No. 5, pp. 402 - 413, Oct 2011.

21. Srinivasa Rao Angajala,"A New Algorithm For Cr Protocols In Ad-Hoc Networks", International Journal of Engineering Science & Advanced Technology, Vol. 2, No. 1, pp. 49 - 58, Feb 2012.

22. Harish Rohil and Seema Nandal, "Performance Evaluation of Reactive Routing Protocols for Mobile Ad Hoc Network", International Journal of Computer Science and Communication Engineering – Special Issue on "Emerging Trends in Engineering", Vol. 1, No.1, pp. 84 – 87, 2012.

23. Sridevi S. and Kalpana M.N, "Energy Efficient Self Adaptive Geographic Routing in Manets", in Proceeding of International Conference CMRIT, 2013.

24. Rajneesh Kumar Gujral, Jyoti Kalra, and Manpreet Singh,"Impact of Scalability with Respect to Mobility and Zone Size on Zone Routing Protocol over MANETs", in IEEE International Conference on Computing Sciences, 2012.

25. Archana Singh and Rajesh Pathak, "Intrusion Detection in Mobile Ad Hoc Network", International Journal of Research in Science and Technology, Vol. 1, No. 3, pp. 1 – 6, 2011.

26. Sanjukta Tanti, Sukant Kishoro Bisoy, Namita Das and Mohit Ranjan Panda, "Performance of DSDV Protocol Based on Different Propagation Model with Various Topologies", International Journal of Computer Engineering and Technology, Vol. 4, No. 4, pp. 333 – 340, 2013.

27. Anjali Sharma and Alpna Singh, "Performance Based Survey of Routing Protocol in MANET", International Journal of Engineering and Advanced Technology, Vol. 2, No. 6, pp. 71 - 75,2013.

28. Naveen Hemrajani, Dinesh Goyal and Praveen Sharma, "Performance Evaluation of AODV with Different Propagation Models", Internation Journal of Computer Applications in Engineering Sciences, Vol. 3, No. 2, pp. 100 -104, 2013.

Technical Report

1   Dr. A.Kathirvel. Thesis Overview: Umpiring models for MANETs. The Journal of Computer Science and Technology (*JCS&T*), Vol. 12, No. 1, 2012.

2   A.Kathirvel and Dr.R.Srinivasan. Umpiring models for security and performance improvement in manets. Indian Science Abstracts, Vol. 47, No. 23, 2011.

3   A.Kathirvel and Dr.R.Srinivasan. Performance Enhancement of On-Demand Routing Protocols in Wireless Mobile Ad-Hoc Networks. B S Abdur Rahman University, Research Abstract, RA 6.5, pp. 47,

December 2006.

4   A.Kathirvel and Dr.R.Srinivasan. Cross Layer Performance of On-Demand Routing Protocols in Mobile Ad-Hoc Networks. B S Abdur Rahman University, Research Abstract, RA 6.9, pp. 49, December 2007.

5   A.Kathirvel and Dr.R.Srinivasan. Security in On-Demand Routing Protocols using Mobile Ad-Hoc Networks. B S Abdur Rahman University, Research Abstract, RA 7.6, pp. 54, December 2008.

6   A.Kathirvel and Dr.R.Srinivasan. Self-umpiring system for security in wireless mobile ad hoc network. B S Abdur Rahman University, Research Abstract, RA 7.4, pp. 48, December 2009.

7   A.Kathirvel and Dr.R.Srinivasan. Umpiring Security Model for MANETs. B S Abdur Rahman University, Research Abstract, RA 7.1, pp. 56, December 2010.

Patents

Dr. A.Kathirvel and Dr.R.Srinivasan, "Self umpiring system for security in wireless mobile ad hoc network", Free Patent Online Number. 225305658, issued on 03/01/2010.

Editor-in-chief

❑   International Journal of Object Oriented Software Engineering

❑   Journal of Computer Communication Engineering and Technology

Scientific Reviewer

❑   Information Security Journal: A Global Perspective – Taylor & Francis Publisher
❑   Wireless Communications and Mobile Computing – Wiley Publisher
❑   International Proceedings of Computer Science and Information Technology
❑   Lecture Notes on Software Engineering
❑   International Journal of Computer Applications
❑   Journal of Advances in Computer Networks
❑   International Journal of Engineering and Technology
❑   International Journal of Computer Theory and Engineering
❑   International Journal of Computer and Electrical Engineering
❑   International Journal of Research and Reviews in Computer Science
❑   World Academy of Science, Engineering and Technology
❑   International Journal of Communication Networks and Information Security
❑   Research Journal of Information Technology – Maxwell Science Publisher
❑   International Journal of Advanced Science and Technology
❑   International Journal of Forensic Computer Science
❑   International Journal of Advanced Science and Technology
❑   International Journal of Advanced Computer Science and Applications
❑   International Journal of Information and Electronics Engineering
❑   International Journal of Computational Intelligence and Information Security
❑   Journal of Computer Science

Scientific Paper Reviewed

- CloudRand Security Service: Building Heterogeneous and Moving-target Network Interfaces for Clouds **– IEEE Transactions on Network and Service Management**
- On Securing Atomic Operations in Multicast AODV - **International Journal of Communication Systems – Wiley Publisher**
- Energy Save And Node Monitoring System In MANET - **International Journal of Communication Systems – Wiley Publisher**
- Scalable Self-Organizing Structured P2P Information Retrieval Model Based on Equivalence Classes **- The International Arab Journal of Information Technology**
- TCWD: Topological Comparison-based Wormhole Detection for MANET **- International Journal of Communication Systems – Wiley Publisher**
- A Novel High Performance Data Security Algorithm For WLANs Applications - **Information Security Journal: A Global Perspective – Taylor & Francis Publisher**
- An Efficient Block Encryption Cipher Based on Chaotic Maps for Secure Multimedia Applications - **Information Security Journal: A Global Perspective – Taylor & Francis Publisher**
- Encryption of Speech Signals with Multiple Secret Keys - **Information Security Journal: A Global Perspective – Taylor & Francis Publisher**
- Mistake filter: Proving a static view for reputation systems in mobile ad hoc networks - **Wireless Communications and Mobile Computing – Wiley Interscience Publisher**
- A Link Adaptation Scheme for the Downlink of Mobile Hotspot - **Wireless Communications and Mobile Computing – Wiley Interscience Publisher**
- Analysis of k-coverage in wireless sensor networks **– International Journal of Advanced Computer Science and Applications**
- A Queueing Network Model for Performance Analysis of Single-Radio and Dual-Radio 802.11Wireless Mesh Networks - **Journal of Computer Science**
- Fast Adaptive Compression Scheme for Real Time Transmission- **Journal of Computer Science**
- A Novel Fuzzy Approach for Detecting Various Attacks in Ad Hoc Networks – **International Journal of Computational Intelligence and Information Security**
- High Performance Certificate Authority Security Scheme in Manet in Mobile Ad Hoc Networks - **International Journal of Computer Theory and Engineering**
- Selecting Object-Oriented Metrics for classification of Faulty and Non-Faulty classes using Machine Learning Methods - **International Journal of Object Oriented Software Engineering**
- Effective Broadcasting In Mobile Ad Hoc Networks Using Grid Based Mechanism Networks - **International Journal of Engineering and Technology**
- Performance Analysis for Resource Management in Integrated Cellular/WLAN Networks - **World Academy of Science, Engineering and Technology**
- Protocol Implementation of the Mobile Ad hoc Network - **International Journal of Computer Theory and Engineering**
- A QoS Estimation Based Scheduler for Real-time Traffic in IEEE 802.11e Mobile Ad hoc Networks **- International Journal of Computer Theory and Engineering**
- Artificial Intelligence Based Authentication Technique with Three Attributes in Vehicular Ad hoc Network - **International Journal of Computer Theory and Engineering**
- A Novel Security Framework for Protecting Network Layer Operations in MANET - **International Journal of Engineering and Technology**
- An Intelligent Routing Strategy for Ad hoc Networks - **International Journal of Engineering and Technology**
- Power and Mobility Aware Protocol for Ad Hoc Network - **International Journal of Engineering and Technology**
- Using an Integrated ontology database to categorize Web Pages – **International Journal of Advanced Science and Technology**
- A Framework For Smart Workflow Services In Agricultural Environments – **International Journal of**

Advanced Science and Technology
- Maximized Posteriori Attributes Selection from Facial Salient Landmarks for Face Recognition – **International Journal of Advanced Science and Technology**
- A Method of Data Hiding in Audio Signal – **International Journal of Advanced Science and Technology**
- Chaotic Image Encryption in Transform Domains - **Information Security Journal: A Global Perspective – Taylor & Francis Publisher**
- Energy Aware Routing (EAR) Protocol for Ad Hoc Networks- **International Journal of Advanced Computer Science and Applications**
- An Efficient Method for Tracking Nodes (EMTN) in Mobile Ad Hoc Networks- **International Journal of Advanced Computer Science and Applications**
- Need to understand uncertainty in the system development modeling process **- International Journal of Advanced Science and Technology**
- Mortal Ammensal and an Enemy Ecological Model with Immigration for Ammensal Species at a Constant Rate - **International Journal of Advanced Science and Technology**
- Intelligent Intrusion detection Prevention System - **Journal of Computer Science**
- Approximate Markovian Model for Delay Behavior of Internet - **Journal of Computer Science**
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Books Published and Laboratory Manuals

1. Ayyaswamy Kathirvel and Rengaramanujam Srinivasan, "**Monograph: Umpiring Security Model and Performance improvement on MANETS**", LAP Lambert Academic Publishing GmbH & Co. Germany. Europe. ISBN 978-3-8473-0621-4.

2. Ayyaswamy Kathirvel, "**Introduction to GloMoSim**", LAP Lambert Academic Publishing GmbH & Co. Germany. Europe. ISBN 978-3-8473-2397-6.

3. Ayyaswamy Kathirvel, Rengaramanujam Srinivasan and Mohanambal Kathirvel, "**Prevention of Attacks using Umpiring Security Model for MANETS**", LAP Lambert Academic Publishing GmbH & Co. Germany. Europe. ISBN 978-3-8484-9901-4.

4. Ayyaswamy Kathirvel**, "GloMosim 2.03 Advanced Manual",** Fundamental of Network Simulators on Tagore Engineering College.

5. Ayyaswamy Kathirvel, "**GloMosim 2.03 Beginners Manual**", Ad Hoc Networks Seminar on B S Abdur Rahman University.

6. Ayyaswamy Kathirvel, "**Qualnet 5.0 Beginners Manual**", Ad Hoc Networks Seminar on B S Abdur Rahman University.

7. Ayyaswamy Kathirvel, "**Qualnet 5.0 Exercise Manual**", Two days workshop on Network Simulators on B S Abdur Rahman University.

8. Ayyaswamy Kathirvel, "**Computer Networks Laboratory Manual using GloMoSim 2.03**", (CS2305 – Computer Networks Laboratory – Anna University), B S Abdur Rahman University.

9. Ayyaswamy Kathirvel, "**Computer Networks Laboratory Manual**", Karpaga Vinayaga College of Engneering and Technology, Chennai

10. Ayyaswamy Kathirvel, "**Data Structures Laboratory Manual**", Karpaga Vinayaga College of

Engneering and Technology, Chennai

11. Ayyaswamy Kathirvel, "**Advanced Operating System Laboratory Manual**", Vivekanandha College of Engneering for Women, Namakkal.

12. Ayyaswamy Kathirvel, " **Networks Laboratory Manual**", Vivekanandha College of Engneering for Women, Namakkal

Workshop/ Short term courses Conducted

1. Convener for 2-days Programme on "Mega Science Expo and Air Show 2013" organized by Vivekanandha Education Institution, Namakkal. During 19th Oct – 21st Oct 2013.
2. Convener for 6-days Programme on "New Faculty Development Programme for Fresher" organized by Karpaga Vinayaga College of Engg and Tech, Chennai. During 27th June – 5th   July 2012.
3. Convener for "Workshop on Wired Network using GloMoSim and Network Simulator 2" organized by Karpaga Vinayaga College of Engineering and Technology on 8th Dec 11.
4. Convener for "Seminar on Advanced Computing Technology" organized by Karpaga Vinayaga College of Engineering and Technology on 13th Dec 11.
5. Convener for "Workshop on Network Simulator 2" organized by Karpaga Vinayaga College of Engineering and Technology on 12th May 11.
6. Convener for "Workshop on Linux for Advanced Users" organized by Karpaga Vinayaga College of Engineering and Technology on 16th Mar 11.
7. Coordinator for "Workshop on Mobile Ad Hoc Network Using GloMoSim" organized by Karpaga Vinayaga College of Engineering and Technology on 18th Feb 11.
8. Coordinator for "One day Workshop on Cloud and Grid Computing" organized by Tagore Engineering College on 20th Jan 11.
9. Coordinator for "Workshop on Fundamentals of Network Simulators" organized by Tagore Engineering College on 29th Dec 10.
10. Coordinator for "Workshop on Network Simulators" organized by B.S.A.U. on 26th – 27th Aug 10.
11. Resource person to conducted 15-days Training Programme on "Infosys Campus Connect Training Programme for Fresher" organized by Infosys Technologies, Chennai. During 11th May – 25th May 2009.
12. Coordinator for "Qualnet Training Programme" organized by B.S.A. Crescent Engineering College on 10th – 12th Aug '07.
13. Resource person to conducted 11-days Talent Transformation Programme on "Wipro I2 Connect Training Programme for Fresher" organized by Wipro Technologies, Chennai. During 21st – 31st May 2006.
14. Resource person to conducted 23-days Training Programme on "Infosys Campus Connect Training Programme for Fresher" organized by Infosys Technologies, Chennai. During 11th May – 2nd June 2005.
15. Coordinator for "Linux" organized by B.S.A. Crescent Engineering College on Mar 12th   05
16. Resource Person for "Faculty Development Program for Operating System - Anna University" organized by Crescent Engineering College on May 31st –June 5th 04.
17. Coordinator for "Basic Computer Skills and Internet Usage in Business" organized by TANSTIA- FNF service Centre, Guindy and IIP Cell of Crescent Engineering College on Aug 8th   03.

Presentations and Seminars

1. "Awareness Programme on Voluntary Blood Donation", General Talk, Vivekanandha College of Engineering for Women on 4th Oct 2013.
2. "Delay Tolerant Networks and Its Research Issues", Research Talk, Vivekanandha College of Engineering for Women on 16th Sep 2013.
3. "How to write paper", Paper presentation for students in "ZealTech 2013", on 12th Sep 2013.

4. "Networking Concepts", Bridge Course for Fresh MBA Students, Vivekanandha College of Engineering for Women on 7th Aug 2013.
5. "How to Choose Research Domain", Research Talk, Vivekanandha College of Engineering for Women on 22nd Jul 2013.
6. "How to Formulate the Research Problem", Research Talk, Vivekanandha College of Engineering for Women on 29th Jul 2013.
7. "Virtual Private Networks and Issues", Keynote presentation, International Conference on Computer, Communication, Network and Technology, Namakkal, 4th – 6th July, 2013.
8. "Vivekanandha Educational Intuitions Infrastructures", Technical Talk, Microsoft Technologies, Bangalore, 14th June 2013.
9. "How to Start Research", Research Talk, Vivekanandha College of Engineering for Women on 15th Apr 2013.
10. "How to Write Good Research Paper", Research Talk, Vivekanandha College of Engineering for Women on 18th Mar 2013.
11. "Importance of Research", Research Talk, Vivekanandha College of Engineering for Women on 11th Feb 2013.
12. "Basics of Networks Simulator", Workshop Talk, Karpaga Vinayaga College of Engineering and Technology on 19th - 20th Oct 2012.
13. "Wireless Networks an overview", Keynote Speech, Karpaga Vinayaga College of Engineering and Technology on 19th - 20th Oct 2012.
14. "Wireless Networks Simulator", Workshop Talk, Arunai College of Engineering, Tiruvannamalai, 21st – 22nd September 2012.
15. "Wireless Networks an overview", Keynote Speech, Arunai College of Engineering, Tiruvannamalai, 21st – 22nd September 2012.
16. "Glimpse of Networks", Workshop Talk, C K College of Engineering and Technology, Cuddalore, 29th August 2012.
17. "Nuts and Bolts of Networks", Keynote Speech, C K College of Engineering and Technology, Cuddalore, 29th August 2012.
18. "Session I: Domain Name Server and Session II: Time and Global States", Guest Lecture given for the Faculty Development program on Distributed Systems organized by Dhanalakshmi College of Engineering, Chennai, on 1st Dec 11.
19. "Green Computing", Keynote presentation, International Conference on Biomedical Instrumentation, Engineering and Environmental Management (ICBEEM), Chennai, 2011.
20. "Ad Hoc Networks Experiment using Simulators", Keynote presentation, National Multiconference on Innovative Computing Technology, Chennai, 2011.
21. "Introduction to Open Source Software", Keynote presentation, Workshop on Linux for Advanced Users, KVCET, Chennai, 2011.
22. "Simulator an Overview", Guest talk, Workshop on Network Simulators, Department of ECE, KVCET, Chennai, 2011.
23. "Software Reliability Methods", Guest talk, Department of Computer Science and Engineering, KVCET, Chennai, 2011.
24. "Networks Simulator", Workshop Talk, Jerusalem College of Engineering, Chennai, 19th November 2010.
25. "GloMoSim Simulator", Workshop Talk, Sairam Institute of Technology, Chennai, 21st November 2010.

Project Proposal Submitted to Government Funding Agency

Sno	Title of Project Proposal	Name of Funding Agency	Scheme	Funding Amount (Rs.)

1	Development of Software for University Exam Results in Voice Format using Mobile Device	AICTE	Research Promotion Scheme	5, 00, 000
2	Interactive Mobile Marketing in Mobile Network using Ubiquitous Computing		Research Promotion Scheme	10, 00, 000
3	A Prototype Model for Tamil Voice Exam Results using Mobile Phone	Tamil Virtual University	Tamil Software Development	2, 00, 000
4	Simulation of Ad Hoc Network	AICTE	SDP Scheme	5, 70,000
5	Real Time Network Security Lab		Modrob Scheme	27, 19, 780
6	FIST – Computer Science and Engineering	DST	FIST	1, 23, 79, 100

Project Proposal Completed

- Linux for Advanced Users, Karpaga Vinayaga College of Engineering and Technology, 2011, Rs. 7, 000.
- Network Simulators, B S Abdur Rahman University, 2010, Rs. 90, 000.
- Crescent Alumni Website, B S Abdur Rahman University Alumni Association, 2007, Rs. 2, 50, 000.
- Research and Development: Network Simulator/Emulator – Qualnet 5.0, B S Abdur Rahman University, 2006 to 2010, Rs. 5, 78, 500.
- IBM Great Mind Challenge Training Program: IBM Corporation, Bangalore, 2005, Rs. 6, 000.
- Wipro I2 Connect Training Programme for Fresher: Wipro Technologies, Chennai, 2004 to 2007, Rs. 40, 000.
- Talent Hunt Program: Infosys Technologies, Chennai, 2005, Rs. 14, 000.
- Oracle Innovative Program: Oracle Corporation, Bangalore, 2003, Rs. 10, 500.
- Innovative Training Course for ETA Freshers, ETA ASCON, 2002 to 2008, Rs. 1, 24, 800.
- Student Travel Support for 2nd National Conference, Saurastra University, Rajkot, Rs. 5, 500.

Other Skills

- **Member, Board of Studies, B S Abdur Rahman University** : 2008 – 2011.
- **Chairman, Board of Studies, Vivekanandha College of Engineering for Women** : 2013 – till date.
- Guest Lecturer delivered at various places of reputed Engineering colleges and Universities.
- Design of website for Crescent Alumni Association.
- Attended more than 30 community service programmes through Alumni Association.
- Various positions of posting held in Alumni Association.
- Coordinator for University Calander.
- Research Coordinator
- Academic Coordinator
- eSRM Coordinator for Computer Science Engineering.

International/National Conferences & Workshop/Seminars

- Attended 15 International Conferences and more than 40 National Conferences and more than 50 Workshop/Seminars held at various places of reputed Engineering Colleges and Universities of India.

Industrial Exposure/Training

- ❑ Attended 6 Industrial Exposure Training conducted by various organizations like IBM, SUN SORALIS, INFOSYS, Microsoft, Adobe and WIPRO.

Professional Memberships

- ❑ Life Member I.S.T.E. (LM 37847)
- ❑ IACSIT
- ❑ IAENG
- ❑ ICST
- ❑ IAES
- ❑ ACM
- ❑ IEEE

Fields of Interest

- ❑ Ad Hoc Networks
- ❑ Mobile Computing
- ❑ Wireless Networks
- ❑ Data Communication and Networks
- ❑ Delay Tolerant Networks

Recognition as Research Supervisor

- ❑ **VIT – Chennai & Vellore**
- ❑ **St. Peters University – Chennai**
- ❑ **Shri Jagdishprasad Jhabarmal Tibrewala University – Rajastan**
- ❑ **Sathyabama University – Chennai**
- ❑ **Karpagam University – Coimbatore**
- ❑ **B.S.Abdur Rahman University – Chennai**
- ❑ **Vels University – Chennai**
- ❑ **Bharat University – Chennai**
- ❑ **Anna University of Technology – Chennai**

Countries Visited

- ❑ Dubai, and Middle East

Projects Guided

- ❑ Guided students for B.E (More than 100 projects), M.E/M.Tech (60 projects) and M.C.A (10 projects).
- ❑ Ph.D (2)

Visiting Faculty (Part Time)

- ❑ Anna University – MIT and Main campus
- ❑ University of Madras (corresponds course)
- ❑ IGNOU (B.Tech - Civil and Mech)

Subjects and Laboratory Handled

❑ **Theory handled**

- Wireless Networks
- Ad Hoc Networks
- High Speed Networks
- Analog, Digital Data and Computer Communication
- Computer Networks
- Object Oriented Software Engineering
- Software Testing
- Requirement Analysis and Estimation
- Cryptography and Network Security
- Data Structures and Programming Design using "C"
- Design & Analysis of Algorithm
- Mobile and Wireless Networks
- Database Management System
- Operating System
- Software Quality Assurance
- Internetworking with TCP/IP
- Mobile Communication
- Unix Internals
- Multimedia Systems
- Computer Network and Managements
- Mobile Networks
- Management Information System
- Advanced Operating System
- Data Structures and Algorithms

❑ **Laboratories handled**

- DBMS – Oracle
- Data Structures – C/ C++
- Networking lab (UNIX/ C/ C++)
- CASE Tools lab
- Object Oriented Programming Lab
- Network Simulation

Personal Data

Date of Birth   : 5th March 1976

Religion/Community   : Hindu – BC

Mother Tongue   : Tamil

Marital Status   : Married – 2 childrens: A.K.Naren(2005) & A.K. Keerthana(2009)

Fathers Name   : Mr. S. Ayyaswamy

Permanent Address   : 2A, Sivakami Street, Srinivasa Nagar, Perungalathur, Chennai – 600 063.

Passport No   : J1464548   valid: 06.10.2020

References

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Professor
Mahalakshmi Apartments, Siva
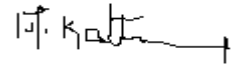Shanmuga Salai, Mylapore,
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