

## UNIVERSITY COLLEGE OF ENGINEERING TINDIVANAM

(A Constituent of Anna University, Chennai)

MELPAKKAM-604001.



### ACADEMIC PROFILE



NAME	Dr.P.VIJAYAKUMAR
EDUCATION PURSUIT	B.E.,M.E.,Ph.D.,
DESIGNATION	ASSISTANT PROFESSOR
DEPARTMENT	COMPUTER SCIENCE & ENGINEERING
EXPERIENCE	UG-11 YEARS
AREA OF INTEREST	1.COMPUTER NETWORKS 2.CRYPTOGRAPHY & NETWORK
MOBILE NO	9940896665 & 9443838048
E-MAIL	<a href="mailto:vijibond2000@gmail.com">vijibond2000@gmail.com</a>



#### LIST OF PUBLICATIONS OF "Dr.P.VIJAYAKUMAR"

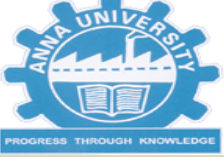
##### Journal Publications:

1. P. Vijayakumar, M. Azees, A. Kannan, L. Jegatha Deborah, "Dual Authentication and Key Management Techniques for Secure Data Transmission in Vehicular Ad-hoc Networks", **IEEE Transactions on Intelligent Transportation Systems**, Vol.17, No.4, pp. 1015 - 1028, 2015. [Impact Factor =3.724]

##### ANNEXURE – I

<http://www.ieeeexplore.ws/xpl/articleDetails.jsp?reload=true&arnumber=7327222&filter>

2. M. Azees, P. Vijayakumar, L. Jegatha Deborah, "EAAP: Efficient Anonymous Authentication with Conditional Privacy Preserving Scheme for Vehicular Ad-hoc



Networks”, **IEEE Transactions on Intelligent Transportation Systems**, Vol.18, No.9, pp. 2467 – 2476,2017. [**Impact Factor =3.724**] **ANNEXURE – I**.

<http://ieeexplore.ieee.org/document/7840036/?reload=true>

3. SK Hafizul Islam, Pandi Vijayakumar, Md Zakirul Alam Bhuiyan, Ruhul Amin, M. Rajeev Varun, Balamurugan Balusamy, "A Provably Secure Three-factor Session Initiation Protocol for Multimedia Big Data Communications", **IEEE Internet of Things Journal**, Accepted for publication, [**Impact Factor=7.596**].

<http://ieeexplore.ieee.org/document/8010815/>

4. Arijit Karati, SK Hafizul Islam, G.P. Biswas, Md Zakirul Alam Bhuiyan, Pandi Vijayakumar, Marimuthu Karuppiah, "Provably Secure Identity-based Signcryption Scheme for Crowdsourced Industrial Internet of Things Environments", **IEEE Internet of Things Journal**, Accepted for publication, Volume: PP, Issue: 99 [**ImpactFactor=7.596**]. <http://ieeexplore.ieee.org/document/8013031/>

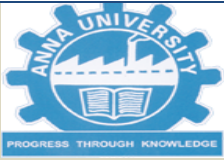
5. P.Vijayakumar, Victor Chang, L. Jegatha Deborah, Balamurugan Balusamy, P.G.Shynu, “Computationally Efficient Privacy Preserving Anonymous Mutual and Batch Authentication Schemes for Vehicular Ad Hoc Networks”, **Future Generation Computer Systems**, Elsevier. Accepted for publication.<http://dx.doi.org/10.1016/j.future.2016.11.024> [**Impact Factor =4.787**]

**ANNEXURE – I**

<http://www.sciencedirect.com/science/article/pii/S0167739X1630663X>

6. P.Vijayakumar, S.Milton Ganesh, L.Jegatha Deborah, and Bharat S.Rawal, “A new SmartSMS protocol for secure SMS communication in m-health environment”, **Computers & Electrical Engineering**, Elsevier. Accepted for publication. <http://dx.doi.org/10.1016/j.compeleceng.2016.11.016> [**Impact Factor =1.08**] **ANNEXURE – I**

<http://www.sciencedirect.com/science/article/pii/S0045790616307790>



7. Fushan Wei, Jian Shen, P. Vijayakumar, Qi Jiang, Ruijie Zhang, "A Mobile Intelligent Terminal Based Anonymous Authenticated Key Exchange Protocol for Roaming Service in Global Mobility Networks", IEEE Transactions on Sustainable Computing, Accepted for publication.

8. G.S. Mahalakshmi, G. Muthu Selvi, S. Sendhilkumar, P. Vijayakumar, Yongxin Zhu, Victor Chang, "Sustainable Computing Based Deep Learning Framework for Writing Research Manuscripts", IEEE Transactions on Sustainable Computing, Accepted for publication.

9. P. Vijayakumar, P. Pandiaraja, Marimuthu Karuppiah, L. Jegatha Deborah "An efficient secure communication for healthcare system using wearable devices", **Computers & Electrical Engineering, Elsevier**. Accepted for publication 10.1016/j.compeleceng.2017.04.014 [Impact Factor =1.08]

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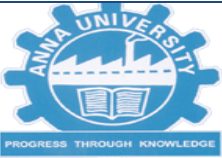
10. Fushan Wei, P. Vijayakumar, Jian Shen, Ruijie Zhang, Li Li, "A Provably Secure Password-Based Anonymous Authentication Scheme for Wireless Body Area Networks", **Computers & Electrical Engineering, Elsevier**. Accepted for publication. [Impact Factor =1.08] **ANNEXURE – I**

11. P. Vijayakumar, S. Bose, A. Kannan, "Centralized Key Distribution Protocol using the Greatest Common Divisor Method," Computers & Mathematics with Applications, *Elsevier*, Vol. 65, No.9, pp.1360–1368, 2013. [Impact Factor=2.008]

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12. SK Hafizul Islam, Mohammad S. Obaidat, Pandi Vijayakumar, Enas Abdulhay, Fagen Li, M Krishna Chaitanya Reddy, "A Robust and Efficient



Password-based Conditional Privacy Preserving Authentication and Group-Key Agreement Protocol for VANETs”, **Future Generation Computer Systems, Elsevier**. Accepted for Publication, 2017. [**Impact Factor =4.787**] **ANNEXURE – I**

13. Suyel Namasudra, Pinki Roy, Pandi Vijayakumar, Sivaraman Audithan, Balamurugan Balusamy, “Time efficient secure DNA based access control model for cloud computing environment”, **Future Generation Computer Systems, Elsevier**. Accepted for Publication. <http://dx.doi.org/10.1016/j.future.2017.01.017> [**Impact Factor =4.787**] **ANNEXURE – I**

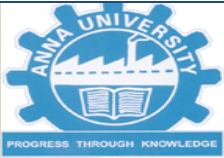
<http://www.sciencedirect.com/science/article/pii/S0167739X17300572>

14. Chang Wang, Yongxin Zhu, Weiwei Shi, Victor Chang, P. Vijayakumar, Bin Liu, Yishu Mao, Jiabao Wang, Yiping Fan, “A Dependable Time Series Analytic Framework For Cyber-Physical Systems Of Iot-Based Smart Grid”, **ACM Transactions on Cyber-Physical Systems, ACM**, Accepted For Publication.

15. SK Hafizul Islam, Prosanta Gope, Prosanta Gope Prosanta Gope, Prosanta Gope, P.Vijayakumar, “Anonymous and Expeditious Mobile User Authentication Scheme for GLOMONET Environments”, **International Journal of Communication Systems, Wiley**, Accepted for Publication. [**Impact Factor= 1.066**] **ANNEXURE – I**.

16. Pandi Vijayakumar, Maria Azees, Victor Chang, Jegatha Deborah, Balamurugan Balusamy, “Computationally Efficient Privacy Preserving Authentication and Key Distribution Techniques for Vehicular Ad Hoc Networks”, **Cluster Computing, Springer**, Accepted for Publication, doi:10.1007/s10586-017-0848-x, [**Impact Factor= 2.040**] **ANNEXURE – I**

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17. P.Vijayakumar, R.Naresh, L. Jegatha Deborah, SK Hafizul Islam, “Computation Cost Efficient Group Key Agreement Protocol for Secure Peer to Peer Communication”, *Security and Communication Networks*, **Wiley**, Vol.9, No.17, pp.3952–3965, 2016. [**Impact Factor=0.72**] **ANNEXURE – I**

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18. P.Vijayakumar, R.Naresh, SK Hafizul Islam, L. Jegatha Deborah “An Effective Key Distribution for Secure Internet Pay-TV using Access Key Hierarchies”, *Security and Communication Networks*, Wiley, Accepted for Publication. DOI: 10.1002/sec.1680 [**Impact Factor=0.72**] **ANNEXURE – I**.

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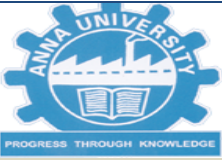
19. M.Azees, P.Vijayakumar, L.Jegatha Deborah, “Comprehensive survey on security services in vehicular ad-hoc networks”, **IET Intelligent Transportation Systems**, Accepted for Publication. Vol.10, No.6, pp. 379 – 388, 2016. [**Impact Factor=1.194**] **ANNEXURE – I**

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20. P. Vijayakumar, S. Bose, A. Kannan, “Chinese Remainder Theorem based Centralized Group Key Management for Secure Multicast Communication,” *IET Information Security*, Vol.8, No.3, pp.179–187, 2014. [**Impact Factor=0.753**] **ANNEXURE – I**

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21. Naresh, R, Vijayakumar, P, Jegatha Deborah, Sivakumar, R, “A Novel Trust Model for Secure Group Communication in Distributed Computing”, Special Issue for Security and Privacy in Cloud Computing, *Journal of Organizational and End User Computing*, **IGI Global**, 2017, Accepted for publication. [**Impact Factor: 0.54**] **Annexure –I**



22. Ruhul Amin, SK Hafizul Islam, P. Vijayakumar, Muhammad Khurram Khan, Victor Chang, “A Robust and Efficient Bilinear Pairing Based Mutual Authentication and Session Key Verification Over Insecure Communication”, *Multimedia Tools and Applications*, Springer, Accepted for Publication, 2017. **[Impact Factor=1.530] ANNEXURE – I**

23. P. Vijayakumar, S. Bose, A. Kannan, L.Jegatha Deborah, “Computation and Communication Efficient Key Distribution Protocol for Secure Multicast Communication,” *KSII Transactions on Internet and Information Systems*, Vol.7, No.4, pp.878-894, 2013. **[Impact Factor=0.560] ANNEXURE – I**

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24. L.Jegatha Deborah, R.Baskaran, A.Kannan, P.Vijayakumar, “Intelligent Agent Based Pair Programming and Increased Self-Efficacy through Prior-Learning for Enhanced Learning Performance”, *Malaysian Journal of Computer Science*, Vol.26, No.2, pp. 87-100, 2013. **[Impact Factor=0.167] –ANNEXURE –I**

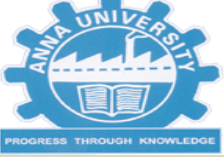
<http://mjcs.fsktm.um.edu.my/document.aspx?FileName=1407.pdf>

25. S.Ganapathy, R.Sethukarasi, P.Yogesh, P.Vijayakumar, A.Kannan “ An Intelligent Temporal Pattern Classification System Using Fuzzy Temporal Rules and Particle Swarm Optimization” *Sadhana - Academy Proceedings in Engineering Science*, *Springer*, Vol.39, No.2, pp.283-302, 2014. **[Impact Factor=0.587] – ANNEXURE – I**

<http://link.springer.com/article/10.1007%2Fs12046-014-0236-7>

26. P.Pandiaraja, P.Vijayakumar, V.Vijayakumar, R.Seshadhri, “Computation Efficient Attribute Based Broadcast Group Key Management for Secure Document Access in Public Cloud”, *Journal of Information Science and Engineering*, Accepted for Publication. **[Impact Factor=0.61], ANNEXURE – I.**

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27. S.Audithan, V.Vijayasaro, P.Vijayakumar, Bharat S. Rawal, “An Efficient Authentication Scheme for Mobile Cloud Computing Services”, Journal of Information Science and Engineering, Accepted for Publication. [**Impact Factor=0.61**], ANNEXURE – I.

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28. Sathiyaseelan Rathinavel, Pandi Vijayakumar, Audithan Sivaraman “On the exploration of adaptive mechanisms providing Reliability in Clustered WSNs for Power Plant Monitoring”, The Scientific World Journal, Hindawi, Article ID 4158735, 13 pages. ANNEXURE – I.

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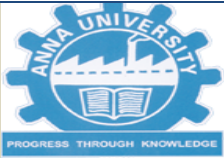
29. S.Ganapathy, P.Vijayakumar, P.Yogesh, A.Kannan, “An Intelligent CRF Based Feature Selection for Effective Intrusion Detection”, International Arab Journal of Information Technology (IAJIT), Vol.13, pp.44-50 2015. [**Impact Factor=0.393**] Annexure-I.

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30. L.Jegatha Deborah, R.Sathiyaseelan, S.Audithan and P.Vijayakumar, “Fuzzy-logic based learning style prediction in e-learning using web interface information”, Springer – Sadhana –Academy Proceedings in Engineering Sciences”, Vol. 40, No.2, April 2015. [**Impact Factor=0.587**] ANNEXURE – I

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31. R.Kanniga Devi, G.Murugaboopathi, P.Vijayakumar, “An efficient Cloud Data Center allocation to the Source of requests”, Journal of Organizational and End User Computing (JOEUC), IGI Global, 2017, Accepted for publication. [**Impact Factor: 0.54**] Annexure –I.



32. S.Audithan, T.S.Murunya,P.Vijayakumar, “Anonymous Authentication for Secure Mobile Agent Based Internet Business”, Circuits and Systems (CS), Scientific Research Publishing, vol.7, no.8, June 2016, pp.1421-1429. **Anna University Updated List.**

<https://www.scirp.org/journal/PaperInformation.aspx?PaperID=67252>

33. P.Pandiaraja, P.Vijayakumar, B.Balamurugan, K.Marimuthu, “A Novel Performance enhancing Task Scheduling Algorithm for Cloud based E-Health Environment,” **International Journal of E-Health and Medical Communications (IJEHMC)**, IGI Global, Accepted for publication.

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34. P. Vijayakumar, S. Bose, A. Kannan “Improved Harn Batch Digital Signature Algorithm for Multicast Authentication”, Journal of Discrete Mathematical Sciences and Cryptography, *Taylor & Francis*, Vol.17, No. 5-6, pp. 435-442, 2014.

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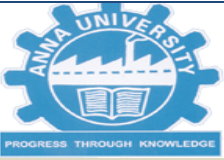
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35. Bharat S Rawal ,QiangDuan, Pandi Vijayakumar,“Dissection of the Experimental Outcome of Split-protocol”,Int. J. of Advanced Intelligence Paradigms, Inderscience, Accepted for Publication. **[ANNEXURE – II]**

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36. Bharat S. Rawal, Songjie Liang, Shiva Gautam, Harsha K. Kalutarage, and Pandi Vijayakumar, “Nth Order Binary Encoding with Split-protocol”, International Journal of Rough Sets and Data Analysis (IJRSDA), IGI Global, Accepted for Publication, 2016. **[ANNEXURE – II]**





37. P. Vijayakumar, S. Bose, A. Kannan, “Rotation Based Secure Multicast Key Management for Batch Rekeying Operations”, *Networking Science*, Springer, Vol.1, No.1, pp.39-47, 2012.

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38. T.S.Murunya, S.Audithan, P.Vijayakumar, “Mobile Agent Based Secure Internet Business Using Access Key Hierarchy Management Scheme”, *Journal of Information and Optimization Sciences*, Taylor & Francis, Accepted for Publication.

<http://www.tandfonline.com/doi/abs/10.1080/02522667.2016.1264151>

39. P.Vijayakumar, K.Anand, S.Bose, V.Maheswari, R.Kowsalya, A.Kannan, “Hierarchical key management scheme for securing mobile agents with optimal computation time,” *Procedia Engineering*, Elsevier, Vol.38, pp.1432-1443, 2012.

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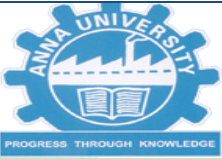
40. P.Vijayakumar and M. Azees, “CEKM: Computationally Efficient Key Distribution Scheme for Vehicular Ad-Hoc Networks”, *Australian Journal of Basic and Applied Sciences*, SPECIAL ISSUE 1, pp. 171-175, 2016. **ANNEXURE – II.**

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41. S.MiltonGanesh,P. Vijayakumar, and L. Jegatha Deborah, “A Comprehensive Survey on Gesture Based Authentication Schemes in Smart Phones”, *Australian Journal of Basic and Applied Sciences*, SPECIAL ISSUE 1, pp.27-36, 2016. **ANNEXURE – II.**

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42. R.Sathiyaseelan and P. Vijayakumar, “An Efficient Angular Adaptive Rotational Clustering Mechanism in Wireless Sensor Networks”, *Advances in*



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43. P. Vijayakumar, S. Bose, A. Kannan, “Error Detection and Correction for Distributed Group Key Agreement Protocol”, International Journal of Network Security & Its Applications, *AIRCC*, vol.3, No.5, pp. 257-270, 2011.

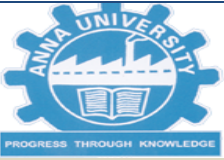
<http://arxiv.org/abs/1110.1602>

44. P. Vijayakumar and L. Jegatha Deborah, “ElGamal Cryptosystem based group key management for Peer to Peer Communication”, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Vol. 2, No. 9, 2015.

45. P. Vijayakumar and L. Jegatha Deborah, “A Detailed Survey on Secure Multicast Group Key Management Schemes” **International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)**, Vol. 2, No. 10, 2015.

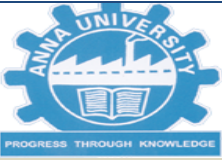
46. L. Jegatha Deborah and P. Vijayakumar, “Detailed Analysis of Feature Subset Selection Techniques for Classification Algorithms”, **International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)**, Vol. 2, No. 9, 2015.

47. L. Jegatha Deborah and P. Vijayakumar, “Fuzzy Model with Learning Approaches for Classification Problem”, **International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)**, Vol. 2, No. 10, 2015.



## International Conference Publications:

1. P. Vijayakumar, M. Azees and L. Jegatha Deborah, "CPAV: Computationally Efficient Privacy Preserving Anonymous Authentication Scheme for Vehicular Ad Hoc Networks" **2nd IEEE International Conference on Cyber Security and Cloud Computing**, New York, USA, pp. 62 – 67, 2015.
2. P. Vijayakumar, S. Bose, A. Kannan, "Key Distribution for Pay-TV System with Reduced Computation Cost Using XOR Operation", International Conference on Advanced Computing, Networking and Security (ADCONS' 11), *LNCS-Springer*, Vol.7135, pp. 477–484, 2012.[ANNEXURE – II]  
[http://link.springer.com/chapter/10.1007/978-3-642-29280-4\\_56#page-1](http://link.springer.com/chapter/10.1007/978-3-642-29280-4_56#page-1)
3. P. Vijayakumar, S Bose, A. Kannan, P.H Himesh, "Key Distribution Protocol for Secure Multicast with Reduced Communication Delay," International Conference on Active Media Technology, *LNCS-Springer*, Vol. 6890, pp. 312-323,2011. [ANNEXURE – II]  
[http://link.springer.com/chapter/10.1007/978-3-642-23620-4\\_33](http://link.springer.com/chapter/10.1007/978-3-642-23620-4_33)
4. S. Milton Ganesh, Vijayakumar Pandi, L. Jegatha Deborah, Md. Zakirul Alam Bhuiyan, "Attacks on the Anti-collusion Data Sharing Scheme for Dynamic Groups in the Cloud", SpaCCS 2017: Security, Privacy, and Anonymity in Computation, Communication, and Storage, Lecture Notes in Computer Science book series (*LNCS-Springer*) volume 10658, pp 457-467, 2017.  
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5. Shangde Gao, Xin Liao, Sujin Guo, Xiong Li, P. Vijayakumar, "Forensic Detection for Image Operation Order: Resizing and Contrast Enhancement", SpaCCS 2017: Security, Privacy, and Anonymity in Computation, Communication,



and Storage, Lecture Notes in Computer Science book series (*LNCS-Springer*) volume 10658, pp 570-580, 2017.

[https://link.springer.com/chapter/10.1007/978-3-319-72395-2\\_52](https://link.springer.com/chapter/10.1007/978-3-319-72395-2_52)

6. Rajendran Karthika, Lazarus Jegatha Deborah, Pandi Vijayakumar, Sivaraman Audithan, “Grouping Users for Quick Recommendations of Text Documents Based on Deep Neural Network”, SpaCCS 2017: Security, Privacy, and Anonymity in Computation, Communication, and Storage, Lecture Notes in Computer Science book series (*LNCS-Springer*) volume 10658, pp 617-626, 2017.

[https://link.springer.com/chapter/10.1007/978-3-319-72395-2\\_56](https://link.springer.com/chapter/10.1007/978-3-319-72395-2_56)

7. Niranchana Radhakrishnan, Marimuthu Karuppiah, Vijayakumar Pandi, Md Zakirul Alam Bhuiyan “A Lightweight Authentication Scheme with User Untraceability”, SpaCCS 2017: Security, Privacy, and Anonymity in Computation, Communication, and Storage, Lecture Notes in Computer Science book series (*LNCS-Springer*) volume 10658, pp 489-496, 2017.

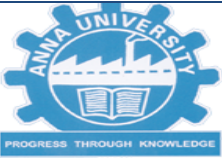
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8. P. Vijayakumar, S. Bose, A. Kannan, V. Thangam, M. Manoji, M. S. Vinayagam, “Error Detection and Correction for Secure Multicast Key Distribution Protocol,” International Conference on Advances in Computing and Information Technology, *CCIS-Springer*, Vol.198, pp. 308-319, 2011. [ANNEXURE – II]

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9. P.Vijayakumar, S.Bose, A.Kannan, S.Siva Subramanian, “A Secure Key Distribution Protocol for Multicast Communication,” International Conference on Logic, Information, Control & Computation, *CCIS-Springer*, Vol.140, pp.249-257, 2011. [ANNEXURE – II]

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(A Constituent of Anna University, Chennai)

MELPAKKAM-604001.

10. P.VijayaKumar, L.Jegatha Deborah and R.Seshadhri, “Efficient Key Management Scheme for securing data in Cloud”, International Conference on Intelligent Information Technologies, Department of IST, Anna University Chennai, Accepted for Publication, 2014.

11. P.Vijayakumar, S. Bose, A. Kannan, S.Siva Subramanian, “An Effective Key Distribution Protocol for Secure Multicast Communication,” Second International Conference on Advanced Computing (ICoAC), *IEEE Explorer*, pp. 102 - 107, 2010.

<http://ieeexplore.ieee.org/xpl/login.jsp?tp=&arnumber=5725367&url=http://ieeexplore.ieee.org/iel5/5723180/5725350/05725367.pdf%3Farnumber%3D5725367>

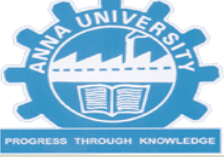
12. L.Jegatha Deborah and P.Vijayakumar, “Dynamic Ontology Alignment Framework based on Linguistics, Summary”, Eighth International Conference on Data Mining and Warehousing (ICDMW-2014), 25 – 27 July 2014 - Accepted for Publication in Elsevier Proceedings.

[http://www.elsevierst.com/conference\\_book\\_download\\_chapter.php?cbid=78#chapter10](http://www.elsevierst.com/conference_book_download_chapter.php?cbid=78#chapter10).

13. P.Vijayakumar, “Efficient Data Storage and Security in Cloud Computing”, Fourth International Conference on Futuristic Trends in Electronics Engineering (ICFTEE2015), TCET, 7-8 March 2015.

14. P.Vijayakumar, “A Detailed Survey of Security Issues in Cloud Computing”, Second International Conference on Advanced Research in Engineering and Applied Sciences, S.R.I College of Engineering and Technology, 21-23 March 2015.

15. Pandiaraja Perumal and Vijayakumar Pandi, “Efficient Multikeyword Search Over Encrypted Data In Untrusted Cloud Environment”, Second International



## UNIVERSITY COLLEGE OF ENGINEERING TINDIVANAM

(A Constituent of Anna University, Chennai)

MELPAKKAM-604001.

Conference on Recent Trends and Challenges in Computational Models (ICRTCCM '17), 3rd-4th February 2017 – Accepted for Publication in IEEE Xplore.

<http://ieeexplore.ieee.org/document/8057544/>

16. R Kanniga Devi, G Murugaboopathi and P Vijayakumar, “Graph-based Mathematical Model for an Efficient Load Balancing and Fault tolerance in Cloud Computing”, Second International Conference on Recent Trends and Challenges in Computational Models (ICRTCCM '17), 3rd-4th February 2017 – Accepted for Publication in IEEE Xplore.

<http://ieeexplore.ieee.org/document/8057523/>

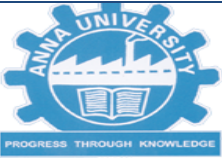
17. Milton Ganesh, Pandi Vijayakumar and Jegatha Deborah, “A Secure Gesture Based Authentication Scheme to Unlock the Smart Phones”, Second International Conference on Recent Trends and Challenges in Computational Models (ICRTCCM '17), 3rd-4th February 2017 – Accepted for Publication in IEEE Xplore. <http://ieeexplore.ieee.org/document/8057526/>

18. Akshat Pradhan, Marimuthu Karuppiah, Niranchana Radhakrishnan and Vijayakumar P, “Secure protocol for Subscriber Identity Module”, Second International Conference on Recent Trends and Challenges in Computational Models (ICRTCCM '17), 3rd-4th February 2017 – Accepted for Publication in IEEE Xplore.

<http://ieeexplore.ieee.org/document/8057564/>

### National Conference Publications:

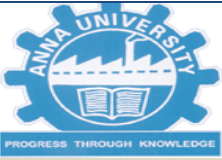
1. L.Jegatha Deborah, P. Vijayakumar, “Enhanced Detection of Learners Learning Styles for E-Learning”, National Conference on Computing Techniques (nct'15), University College of Engineering Villupuram, 2015.



2. P. Vijayakumar, L.Jegatha Deborah, “Tree based key management scheme for secure multimedia multicast” National Conference on Computing and Applications (NACCA 06), National Engineering College, Kovilpatti, Tamilnadu, Feb 24, 2006.
3. P. Vijayakumar, S.Benson Edwin Raj, “Key Distribution for secure multicast via media dependent channel”, National Conference on Recent Advances & Future Trends in IT, Bharat Institute of Higher Education and Research, Chennai, India, Feb 1-2, 2005.
4. B. Sivaranjani and P. Vijayakumar, “A technical survey on various VDC request embedding techniques in Virtual Data Center”, National Conference on Parallel Computing Technologies (PARCOMPTECH), IEEEExplore, pp. 1 – 6, 2015.

### Guest Lectures Delivered:

1. Delivered a Guest Lecture on “Hashing Techniques, Digital signatures and E-mail Security” on 27-05-2015 in the Faculty Development Programme “Cryptography and Network Security” conducted at Department of Computer Science & Engineering, CEG, Anna University Chennai.
2. Delivered a Guest Lecture on “Applications of Group Theory” on 26-05-2015 in the Faculty Development Programme “Discrete Mathematics” conducted at Department of Mathematics, UCEV, Villupuram.
3. Delivered a Guest Lecture on “Classical Encryption Techniques, DES, 3DES, Modes of operation, Public key cryptography and RSA” on 25-05-2015 in the Faculty Development Programme “Cryptography and Network Security” conducted at Department of Computer Science & Engineering, CEG, Anna University Chennai.
4. Delivered a Guest Lecture on “Security in Cloud Computing” on 19-05-2015 in the AICTE sponsored 2 week summer/winter school at Department of Computer Science & Engineering, Adhiparasakthi Engineering College, Melmaruvathur.
5. Given an invited talk on “Computer Networks and Security” in the National Conference “Nect 15” at University College of Engineering Villupuram on 31-03-2015.



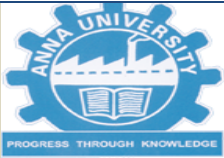
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6. Delivered a Guest Lecture on “Cryptography and Network Security” in the Conference “Advanced Research in Engineering and Applied Sciences” at S.R.I College of Engineering and Technology on 21-03-2015.
7. Delivered a Guest Lecture on “Cryptography and Network Security” in the Conference ICFTEE (International Conference on Futuristic Trends in Electronics Engineering) at TCET on 07-03-2015.
8. Handled two sessions on “Key Management Techniques for Internet Security” in the DST sponsored workshop “Recent Techniques in Web Services and Internet Security” conducted at DIST, CEG on 19-02-15.
9. Delivered a Guest Lecture on “Research Issues in Multicast Security” in the Department of Computer Science and Engineering at Pondicherry Engineering College on 18-11-2014.
10. Given an invited talk in the national conference “Advanced Methodologies in Information and Communication Engineering (NCAMICE 14)” in the IT department at Mailam Engineering College on 22-03-2014.
11. Given a guest lecture on “Machine Intelligence through Logic & Reasoning” in the department of Computer Science and Engineering, IFET College of Engineering on 04-02-2014.
12. Given a guest lecture on “Network Security” in the Department of CSE and IT, Idhaya Engineering College for Women (IECW), Chinnasalem - 606 201 on 30-09-13.
13. Given a guest lecture on “Cryptography and Network Security” in the Department of CSE at M.R.K Institute of Technology, on 26-07-13.
14. Handled two sessions in the Faculty Development Programme conducted on “Cryptography and Network Security” on 25-06-2013 in the department of Computer Science & Engineering, Anna University Chennai.
15. Handled two sessions in the Faculty Development Programme conducted on “Cryptography and Network Security” on 24-06-2013 in the department of Computer Science & Engineering, Anna University Chennai.
16. Handled a session on “Detecting & Preventing Password & SQL Injection Attacks” in the Ethical Hacking & Counter Measures training course on 12-08-2013 in the department of Computer Science & Engineering, CEG, Anna University Chennai.
17. Handled two sessions in the TEQIP sponsored Faculty Development Programme on “Research Trends in Network Security” on 07-08-2013 in the Department of Information Technology at Anna University Tiruchy, BIT Campus.





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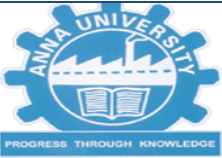
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18. Handled a session on “Group Theory and Its Applications” in the Faculty Development Programme conducted on “Discrete Mathematics” on 27-06-2013 in the Department of Mathematics, Anna University Chennai.
19. Given an invited talk on “How to Do Research Work” in the Association function “SAIT-2012” at Mailam Engineering College on 30-04-2012.
20. Handled two sessions in the Faculty Development Programme conducted on “Cryptography and Network Security” on 06-12-2012 in the department of Information Science and Technology, Anna University Chennai.
21. Handled two sessions in the Faculty Development Programme conducted on “Cryptography and Network Security” on 05-12-2012 in the department of Information Science and Technology(IST), Anna University Chennai.
22. Handled two sessions in the Faculty Development Programme conducted on “Artificial Intelligence” on 03-12-2012 in the department of Computer Science and Engineering, University College of Engineering Tindivanam.
23. Given a guest lecture on “Network Security” in the department of Computer Science and Engineering, IFET College of Engineering on 19-07-2012.
24. Delivered a Guest Lecture on “Information Security” in the Conference ICFTEE (International Conference on Futuristic Trends in Electronics Engineering) at TCET on 28-01-2012.
25. Delivered a Guest Lecture on “Emerging Trends in Information Security” in the Department of CSE at Prist University-Kumbakonam Campus on 12-08-2011.
26. A seminar on “Data Warehousing” was given to the students at the KLN Memorial Polytechnic College, Madurai on 27.07.2005.

### Ph.D Research Guidance:

S.No	Name of the Research Scholar & Register No	Status	Date	Title of the Research Work
1	Mr.M.Azees (Full Time) 1014499711	Ph.D Completed	Completed Viva- Voce on 11/01/2017	Efficient Privacy Preservation Authentication and Key Management Techniques for Providing Secure



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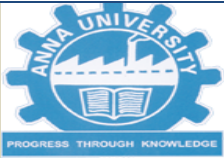
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				Communication Vehicular Adhoc Networks
2.	Mr.R.Sathiyaseelan(Part Time) 2011114071	Ph.D Completed	Completed Viva-Voce on 26/04/2017	Secure and Energy Efficient Protocols for Improving the Performance of Sensor Networks
3.	Mr.P.Pandiaraja(Part Time) 2011174081	Thesis Submitted	30/06/2017	Efficient Data Access and Task Scheduling Approaches for Secure Communication in Cloud
4.	Mr.R.Naresh(Part Time) 1413499101	Thesis Submitted	14/07/2017	Trusted and Efficient Group Key Management Techniques for Secure Group Communication in Distributed Networks

### Training Programs Conducted:

S.No.	Name of the Program	Start Date	End Date
01.	FDP program on “Artificial Intelligence and Cryptography” at Sethu Institute of Technology.	23.01.06	23.01.06
02.	FDP program on “Artificial Intelligence” at UCET.	03.12.2012	09.12.2012
03.	National Level Technical Symposium, TECHNOVATION at UCET.	19.08.2011	19.08.2011
04.	National Level Technical Symposium, SERVIDOR2k12 at UCET.	28.09.2012	28.09.2012
05.	Intra College Technical Symposium,	11.02.2013	11.02.2013



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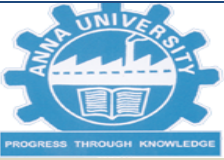
	UCETROX'13 at UCET.		
06.	National Level Technical Symposium, INNOVAZZ 13 at UCET.	27.09.2013	27.09.2013
07.	National Level Technical Symposium, Cetana Ranya'14 at UCET.	12.09.2014	12.09.2014
08.	A seminar on "Web Services and its Applications" was conducted in the CSE department at UCET.	16.03.2015	16.03.2015

### Books Published:

S.No.	Title of the Book	Authors	Co-Authors	Name of the Publisher / Month, Year	ISBN
01.	Cryptography and Network Security	S.Bose	P.Vijayakumar	Pearson Education, 2015	978-93-325-4364-5
02.	Data Structures	P.Vijayakumar	Nil	All Nations University Publications, Koforidua, Ghana, 2007	9988-6622-35
03.	System Software	A.S.Raja	P.Vijayakumar	Anuradha Publications, Chennai, 2006	81-89638-40-8
04.	Computer Networks	R.Sukumar	Mr. Y.Arockia Jesuraj, P.Vijayakumar	Dharsan Publications, Chennai, 2007	Nil

### Research work Guidance:

- 1) Guiding for 7 Ph.D students under Anna University Chennai.
- 2) Anna University Chennai Research Supervisor Number is **2140428**



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- 3) Guided for various B.E/B.Tech, M.C.A and M.E in the area of Computer Networks and Cryptography.

### Membership of Scientific Societies:

- 1) Lifetime Membership in CSI (Computer society of India)
- 2) Annual Membership in FTRA (Future Technology Research Association)

### Additional Responsibilities:

Sl. No.	Post Held	Function	Duration
1.	Dean i/c	Heading the College	16-02-2015 to Till Now
2.	Zonal Coordinator	To monitor the exam activities in Zone V	16-02-2015 to Till Now
3.	Head of the Department, CSE	Heading the Department	01-05-2014 to 15-12-2014
4.	Camp Officer	Conducting Valuation for Anna University Theory Exam Paper Correction	2012-2013
5.	Consumer Protection Coordinator	Educating Public and Students to know about Consumer Rights	2008 to 2014
6.	AISHE Nodal Officer	Collecting the statistics about students and staffs and entering the details in the website <a href="http://aishe.gov.in/aishe/home">http://aishe.gov.in/aishe/home</a>	2013 to Till Now
7.	EDUSAT Co-ordinator	To provide virtual Teaching environment to students and staffs.	2011 to Till Now
8.	Head of the Department, CSE, All Nations University.	Heading the Department	01-02-2007 to 30-06-2008
9.	Deputy Controller of Examinations, All Nations University.	To Provide Transcripts to the Students	6 Months