

CURRICULUM VITAE

Name	: Mr. Deveshkumar C. Jinwala	
Date of Birth	: **** **, 1964	
Qualifications	: Ph D. (Computer Engg), M E (Elect. Eng), B E (Electronics Eng)	
Designation	: Professor in Computer Engineering	
Date of Joining	: 21-01-1991	
Designations Served	: Professor in Computer Engineering (June 2011 – continuing) Associate Professor in Computer Engineering (Jan 2006 – June 2011) Lecturer in Electronics Engineering (Jan 1991 – Oct 1998) Assistant Professor in Computer Engineering (Oct 1998 – Dec 2005)	
Additional Positions	: Dean (Research and Consultancy), SVNIT (Feb 2015 – July 2016) Dean (Faculty Welfare), SVNIT (Dec 2013 – Jun 2014) Professor In Charge - Central Computer Centre (Oct 2002 – Jan 2010) Head, Dept of Computer Engg (Feb 2010 – Feb 2012) (July 2014 – Dec 2014) Systems Manager - Central Computer Centre (Aug 1997- Oct 2002)	
Previous Experience	: Jan 1987 – Sep 1987, Maegaware Computers Ltd, Vapi Oct 1987 – Dec 1990, ICIM Ltd.....served at various places viz. Mumbai, Pune, Ahmedabad, Anand, Vadodara.	
Research Areas of Interest	: Information & Communications Security. Privacy Issues. Security & Privacy Issues in Resource constrained Environments. Software Requirements Specifications.	

Brief Introduction:

I, Devesh C Jinwala, serve as a Professor in Computer Engineering at the Department of Computer Engineering, Sardar Vallabhbhai National Institute of Technology (SVNIT), Surat, India. I have a Ph D in Computer Engineering, having carried out my research work at SVNIT, Surat, in close association with Space Application Centre, Indian Space Research Organization, Ahmedabad. I have been employed with SVNIT since Jan 1991, initially employed in the Electronics Engineering Department, that bifurcated into the Computer Engineering Department in 2002.

My research focus mainly is in Information Security & Privacy issues in Wireless Sensor Networks but I also dabble in General Information Security & Privacy issues, Software Requirements Specifications, Using Ontologies in Software Specifications and Resource Discovery.

I have carried out successfully two research projects viz. one funded under the RESPOND program of ISRO on **Design and Implementation of Link Layer Security Architecture for Wireless Sensor Networks** and the other funded by the Department of Electronics and Information Technology, Ministry of

Communications and Information Technology, Govt of India.on **A Secure Data Aggregation System and an Intrusion Detection Systems for Wireless Sensor Networks**. Currently, I am investigating a project sponsored by Gujarat Council of Science and Technology on **Investigating Anti-Replay Algorithms for Link Layer Security Architecture in Wireless Sensor Networks**.

I have also shouldered in the past and am shouldering numerous administrative responsibilities including being Dean (Research & Consultancy), Dean(Faculty Welfare), Head(Department of Computer Engineering and others, the details of which can be looked up on my website.

On the personal front, my wife Deepti is an M. Com and employed with Life Insurance Corporation of India, whereas our son Aakar is aiming to pursue his Master's studies in Computer Science and Engineering.

My peripheral interests lie in activities that include Travel, Spiritualism, Yoga, Cycling – have pedaled more than 20000 kms since 2009, ref: <http://www.dailymile.com>; following games like Cricket and Tennis, reading (all types of literary/fiction works) and watching movies of the pre-1980 period.

I also love writing travel reviews and have the Attraction Specialist badge on Trip Advisor.

One would be able to find the relevant information about myself in this document under the following heads viz.

- Funds/Research Grants/Projects
- Conferences/Session Chairmanship/Papers Reviewed
- Countries Visited/Presentations Abroad
- A Select List of Publications
- Conferences / Workshop / Seminar Short Courses etc. organized
- Invited Talks/ Expert Lectures Delivered
- Ph D Research Work Supervision
- M Tech Dissertation Supervision
- Administrative and Other responsibilities, Innovative Practices etc.
- A Select List of Training Programs/Schools/Workshops/Conferences attended
- Courses Taught

Funds/Research Grants/Projects:

- Allocated Rs 96.08 crores for the project titled **Information Security Education and Awareness Project Phase II** of Ministry of Communications and Information Technology, at SVNIT Chief Investigator July 2017 onwards. Joint-Investigator from April 2015 to July 2016. Ongoing.
- Coordinator (for a short period of 12 months ONLY) of the **Information Security Education and Awareness Project** of Ministry of Communications and Information Technology, at SVNIT.
- Allocated Rs 48.864 lakhs for the project titled **A Secure Data Aggregation System and an Intrusion Detection Systems for Wireless Sensor Networks** Sponsored by the Department of Electronics and Information Technology, Ministry of Communications and Information Technology, Govt of India, New Delhi. Project Commencement: Sep 2011 - Project Completed: Mar 2015
- Allocated Rs 7.5 lakhs under the RESPOND programme of ISRO for the Research Project titled **Design and Implementation of the Security Attributes driven Energy Efficient Link Layer Security Architecture for Wireless Sensor Networks.** Project Commencement: Nov 2009, Project Completed: Nov 2012.
- Allocated Rs 2.44 lakhs for the project titled **“Investigating Anti-Replay Algorithms for Link Layer Security Architecture in Wireless Sensor Networks.”** Sponsored under the Minor Research Project Scheme of Gujarat Council of Science and Technology, Govt of Gujarat, Gandhinagar. Project Commencement: April 2013 - Project Completion: March 2016.
- Allocated Rs 7.5 lakhs under the MHRD, GoI's scheme Thrust Areas in Technical Education for the project titled **“Development of a Computer Aided Software Engineering Lab.”** Project Commencement: 1998, Project Completion: 2001.

Conferences/Session Chairmanship/Papers Reviewed:

1. On the program committee of the International Journal of Computer Systems Science and Engineering.
2. On the reviewer panel of Elsevier's Computer Networks Journal; IET Security Journal; Inderscience's International Journal of Information and Computer Security; British Journal of Mathematics & Computer Science; International Journal of Computer Information Systems and Industrial Management Applications; ICT Academy's ICTACT Journal on Communication Technology; GIT - Journal of Engineering and Technology, Gandhinagar.
3. On the program committee of the International Multi-Conference for Computer Scientists and Engineers, Hong Kong (since 2011); ICIDCIT at KIIT University, Bhubaneswar (since 2013); International Conference on Security and Management (SAM - since 2012); 2nd IEEE International Conference on Emerging Technology Trends in Electronics, Communication and Networking (ET2ECN-2014); IEEE International Conference on Computer and Communication Technology (ICCCCT – since 2010); International Conference on Current Trends in Technology at Institute of Technology, Nirma University, Ahmedabad (since 2011); UGC Sponsored International Conference on Technology and Information Systems (ICTIS-2010); International Conference at Parul University, Vadodara.
4. On the reviewer panel of IEEE India Conference on Emerging Trends and Innovations in Technology (INDICON - since 2013); The SPRING 4th International Conference on Knowledge Generation, Communication and Management (KGCM 2010), Florida, USA; International Conference on Contemporary Computing (IC3 2015); IEEE International Symposium on Signal Processing and Information Technology, 2014, IIIT, New Delhi; International Conference on Current Trends in Technology at Institute of Technology, Nirma University, Ahmedabad (since 2011), IEEE TENSYP 2015 held at Ahmedabad, India (One of the Track Chairs in the Security and Privacy Track).

Countries Visited/Presentations Abroad :

- Served as a Visiting Professor at Daniel Felix Ritchie School of Computer Science and Engineering, University of Denver, **Denver, Colorado (USA)** from July 2016 to June 2017. Taught the courses viz. ***Security in Resource Constrained Environments, Secure Software Engineering, Computer Networking, Network Security, Introduction to Computer Systems, Introduction to Computer Theory.*** Awarded the Appreciation Letter for ***“highly esteemed contributions in developing and implementing the MS in Cyber Security Program and for excellence in teaching and research. outstanding services to Teaching and Research.”***
- Attended the **Inaugural Asia ICS Cyber Security Conference 2017 (AICSC2017)**, Singapore, Singapore. - 27th and 28th March 2017.
- Presented a paper on **Malleability Resilient Concealed Data Aggregation** authored by Keyur Parmar, Devesh C Jinwala, at 20th EUNICE Open European Summer School and Conference (EUNICE 2014), Telecom Bretagne, **Rennes, France** during the period Sep 1-3, 2014
- Presented a paper on **A Peer-to-Peer multiway tree network with efficient range query search using multidimensional indexing** (authors: Shivangi Surati, Devesh C. Jinwala, Sanjay Garg) at the 4th International Conference on Digital Information and Communication Technology and its Applications, DICTAP 2014, at **Bangkok, Thailand** during the period May 6-8, 2014.
- Attended the 34th International Conference on Software Engineering at Kongresshaus, **Zurich, Switzerland**, during the period June 6-8, 2012.
- Presented a paper/talk on **Analysis of Significant Components for Designing an Effective Dynamic Load Balancing Algorithm in Distributed Systems** (authors: Mayuri Mehta, Devesh C Jinwala) at the 3rd International Conference on Intelligent Systems, Modeling and Simulation, ISMS2012, at **Kota Kinabalu, Malaysia**, Feb 2012.
- Presented a paper/talk on **Exploring Homomorphic Encryption in Wireless Sensor Networks** (authors: Bhumika Patel, Devesh C Jinwala) at the International Conference on Informatics Engineering & Information Science (ICIEIS 2011) at **Kuala Lumpur, Malaysia**, Nov. 2011.
- Presented a paper/talk on **Improving AODV Protocol against Blackhole Attacks** (authors: Nital Mistry, Devesh C Jinwala, Mukesh A Zaveri) at the International Conference on Control and Automation under the International Multi-Conference of Engineers and Computer Scientists, **Hong Kong, SAR of China**, Mar 2010.
- Presented a paper/talk on **Optimizing the Block Cipher Resource Overhead at the Link Layer Security Framework in the Wireless Sensor Networks** (authors: Devesh C Jinwala, Dhiren Patel, Kankar Dasgupta) at the International Conference on Wireless Networks at World Congress on Engineering, **Imperial College, London**, July 2008.
- Presented a paper/talk on **Configurable Link Layer Security Architecture for Wireless Sensor Networks** (authors: Devesh C Jinwala, Dhiren Patel, Kankar Dasgupta) at the International Conference on Wireless Networks at World Congress on Engineering, **Imperial College, London**, July 2008.

List of publications :

Books/Monographs:

1. Keyur Parmar, Devesh C Jinwala. Book chapter titled Malleable Cryptosystems and Their Applications in Wireless Sensor Networks published in the book Computer and Network Security Essentials, Editor :Kevin Daimi, Springer International Publishing, Sep 2017. eBook ISBN 978-3-319-58424-9, DOI 10.1007/978-3-319-58424-9, Hardcover ISBN 978-3-319-58423-2.
2. Nirali Nanavati, Devesh C Jinwala. Book chapter titled Information-Theoretically Secure Privacy Preserving Approaches for Collaborative Association Rule Mining published in the book Computer and Network Security Essentials. Editor :Kevin Daimi, Springer International Publishing, Sep 2017. eBook ISBN 978-3-319-58424-9, DOI 10.1007/978-3-319-58424-9, Hardcover ISBN 978-3-319-58423-2
3. Rutvij Jhaveri, Narendra M Patel, Devesh C Jinwala. A Composite Trust Model for Secure Routing in Mobile Ad-Hoc Networks published in the book Ad Hoc Networks Editors: Jesus Hamilton Ortiz and Alvaro Pachon de la Cruz, May 2017. Intech Publications. DOI: 10.5772/66519 ISBN 978-953-51-3110-6, Print ISBN 978-953-51-3109-0.
4. Editor for the Proceedings of the **9th National Workshop on Cryptology, 2009** organized under the aegis of the Cryptology Research Society of India and sponsored by the Department of Science and Technology, Ministry of Information and Communication Technology and Council of Scientific and Industrial Research
5. Devesh Jinwala, Bankim Patel; "Fundamentals of Computers and Programming in C" published by Benison Education, ISBN No: ISBN No:81-88894-00-1, 2003.
6. Contributed a chapter titled "Karya Padhhati" in a Vernacular book titled "Computer ni Bolbala" compiled by Dr Nagin Modi and published by R R Sheth and Company, Ahmedabad, 1993

Publications - International Journals :

2017

1. Dhruti Sharma, Devesh C Jinwala. "Multi-User Searchable Encryption with Token Freshness Verification (MUSE-TFV)" In: Journal of Security and Communication Networks, Vol XX, Issue XX , pp. XXXX-XXXX, Hindawi Publications, /* To Be Published*/ (DBLP-SCI).
2. Kaushal Shah, Devesh C Jinwala, "Novel Approach for Pre-distributing Keys in WSNs for Linear Infrastructure", In: Wireless Personal Communications, Vol 95, Issue 3, pp. 3905-392187, Springer-Verlag, 2017. (DBLP-SCI).
3. Shivangi Surti, Devesh C Jinwala, Sanjay Garg. "A survey of simulators for P2P overlay networks with a case study of the P2P tree overlay using an event-driven simulator" In: International Journal of Engineering Science and Technology, Volume 20, Issue 2, Pages 705-720, April 2017, Elsevier (EBSCOhost, Scopus)
4. Jayam Modi, Manav Prajapati, Abhinav Sharma, Ravi Ojha, Devesh Jinwala. "A Secure Communication Model for Expressive Access Control Using CP-ABE." In: International Journal of Network Security Volume 19, Issue 2, 193-204, 2017. (DBLP)

2016

5. Nishant Doshi, Devesh C Jinwala; "A novel approach for privacy homomorphism using attribute-based encryption" In: Journal of Security and Communication Networks, Vol 9, Issue 17 , pp. 4451-4467, John Wiley and Sons, Online ISSN: 1939-0122, 2016 (DBLP-SCI).

6. Chandan Trivedi, Shilpa Prakash, Devesh Jinwala and B.Kartikeyan; "Iterative deconvolution approach for high resolution satellite imagery" In: Journal of Geomatics, Volume. 10, No. 2, pp. 115-120, October 2016.
7. Keyur Parmar, Devesh C. Jinwala; "Concealed data aggregation in wireless sensor networks: A comprehensive survey". In: Computer Networks; Volume 103, pp. 207-227, Elsevier, 2016. (DBLP-SCI)
8. Keyur Parmar, Devesh C Jinwala, "Malleability Resilient Concealed Data Aggregation", In: Wireless Personal Communications, Vol 87, Issue 3, pp. 971-993, Springer-Verlag, 2016. (DBLP-SCI).
9. Pawan Bhaladare, Devesh C Jinwala, "Novel Approaches for Privacy Preserving Data Mining in K-Anonymity Model", Journal of Information Science and Engineering, Vol 32, Issue 1, pp. 63-78, Institute of Information Science, Academia Sinica, Taipei, Taiwan, 2016 (DBLP-SCI)
10. Pawan R. Bhaladhare, Devesh C. Jinwala, "A Clustering Approach Using Fractional Calculus-Bacterial Foraging Optimization Algorithm for k-Anonymization in Privacy Preserving Data Mining", International Journal of Information Security and Privacy, Volume 10, Issue 1, pp. 45-65, IGI Global IGI Global Publishers, USA, 2016 (DBLP)
11. Hasmukh Patel, Devesh C Jinwala; "STF-DM: A Sparsely Tagged Fragmentation with Dynamic Marking an IP Traceback Approach", International Arab Journal of Information Technology, Volume 15, No. 4, To be published in July 2018. (DBLP-SCI).
12. Shivangi Surti, Devesh C Jinwala, Sanjay Garg; "Improving Multidimensional Point Query Search using Multiway Peer-to-Peer Tree Network", Vol Issu, International Journal of Information and Communication Technology, Inderscience Publishers, UK, 2016. (DBLP) – To Be Published

2015

13. Nirali Nanavati, Devesh C Jinwala, "A Novel Privacy Preserving Scheme for Collaborative Frequent Itemset Mining across Vertically Partitioned Data", In: Journal of Security and Communication Networks, Vol 8, Issue 18, pp 4407-4420, John Wiley and Sons, Online ISSN: 1939-0122, (DBLP-SCI).
14. Sankita Patel, Dharmen Punjani, Devesh C Jinwala, "An Efficient Approach for Privacy Preserving Distributed Clustering in Semi-honest Model using Elliptic Curve Cryptography", Vol. 17, No. 3, pp. 328-339, Femto Technology Co. Ltd. Publishing, Korea, ISSN: 1816-353X, 2015. (DBLP)
15. Rashmi Phalanikar, Devesh C Jinwala, "Analysis of Conflicting User Requirements in Web Applications Using Graph Transformation", In: ACM SIGSOFT Software Engineering Notes, Vol 40 Issue 2, pp. 1-7, ACM, 2015. (DBLP)
16. Hasmukh Patel and Devesh C. Jinwala; "Automated Analysis of Internet Key Exchange Protocol v2 for Denial of Service Attacks", In: International Journal of Network Security, Vol. 17, No. 1, pp. 66-71, Femto Technology Co. Ltd. Publishing, Korea, ISSN: 1816-353X, 2015. (DBLP)
17. Shivangi Surati, Devesh Jinwala, Sanjay Garg. "Evaluating the impact of Fanout and Dimension on the performance of a hybrid model for Multidimensional Indexing in Peer-to-Peer m-ary tree network." In: International Journal of Communication Networks and Distributed Systems, 14(2), pp. 185-201, Inderscience Publishers, UK, 2014. (DBLP).
18. Ami Choksi, Devesh c Jinwala. "A Novel way to relate Ontology Classes." In: The Scientific World Journal, 14(2), pp. 185-201, Hindawi Publishing Corporation, USA. 2015.
19. Neelam A Surti and Devesh C Jinwala. "A Static Code and Dynamic Data Attestation based Intrusion Detection System for Wireless Sensor Networks." In: International Journal of Computer Applications Volume 119, No. 18, pp:18-24, Foundation of Computer Science, USA, June 2015. DoI: 10.5120/21167-

20. Tushar Goyal, Alay Vakil, Dhruvil Parmar, Rishit Jain, Devesh C. Jinwala. "Preventing Phishing Attacks: A Novel Approach." In: International Journal of Computer Applications, Volume 121, Number 14, pp: 8-12, Foundation of Computer Science, USA, July 2015. DoI: 10.5120/21606-4521.
21. Unnati S. Shah, Devesh C. Jinwala: Resolving Ambiguities in Natural Language Software Requirements: A Comprehensive Survey. ACM SIGSOFT Software Engineering Notes Volume 40, Issue, 5, Pages: 1-7, 2015 (DBLP).

2014

22. Nishant Doshi and Devesh C Jinwala. "Fully Secure Ciphertext Policy Attribute Based Encryption with Constant Length Ciphertext and Faster Decryption". In: Journal of Security and Communication Networks, Vol 7, Issue 11, pp 1988–2002, DoI: 10.1002/Sec.913, John Wiley and Sons, Impact Factor: 0.311, ISI Journal Citation Reports © Ranking: 2012: 70/78 (Telecommunications); 119/132 (Computer Science Information Systems), Online ISSN: 1939-0122, November 2014 (DBLP-SCI).
23. Nirali R. Nanavati, Prakash Lalwani, and Devesh C. Jinwala. "Analysis and Evaluation of Schemes for Secure Sum in Collaborative Frequent Itemset Mining across Horizontally Partitioned Data," Journal of Engineering, Hindawi Publications, vol. 2014, Article ID 470416, 10 pages, 2014. doi:10.1155/2014/470416, Dec 2014.
24. Mayuri A. Mehta and Devesh C. Jinwala, "A Hybrid Dynamic Load Balancing Algorithm for Distributed Systems," In: Journal of Computers, Vol 9, Issue 8, pp. 1825-1833, Academy Publishers (United Kingdom), 2014. (DBLP).
25. Sankita Patel, Mitali Sonar, Devesh C Jinwala. "Privacy Preserving Distributed K-Means Clustering in Malicious Model Using Verifiable Secret Sharing Scheme." In: International Journal of Distributed Systems and Technologies (IJDST), Vol 5, Issue 2, pp 44-70, IGI Global Publishers, USA, 2014 (DBLP)
26. Mayuri A.Mehta, Devesh C Jinwala. "A hybrid dynamic load balancing algorithm for distributed systems using genetic algorithms." In: International Journal of Distributed Systems and Technologies (IJDST), Vol 5, Issue 3, pp 1-23, IGI Global Publishers, USA, 2014 (DBLP).
27. Nirali R. Nanavati, Neeraj Sen, Devesh C. Jinwala. "Analysis and Evaluation of Novel Privacy Preserving Techniques for Collaborative Temporal Association Rule Mining using Secret Sharing." In: International Journal of Distributed Systems and Technologies (IJDST), Vol 5, Issue 3, pp 58-76, IGI Global Publishers, USA, 2014 (DBLP).
28. Vivaksha Jariwala, Himanshu Patel, Parth Patel, Devesh C Jinwala, "Integrity and Privacy Preserving Secure Data Aggregation in Wireless Sensor Networks, " In: International Journal of Distributed Systems and Technologies (IJDST), Vol 5, Issue 2, pp 77-99, IGI Global Publishers, USA, 2014 (DBLP).
29. Pawan R. Bhalhare, Devesh C Jinwala. "A Clustering Approach for the -Diversity Model in Privacy Preserving Data Mining Using Fractional Calculus-Bacterial Foraging Optimization Algorithm." In: Advances in Computer Engineering, Volume 2014, Article ID 396529, <http://dx.doi.org/10.1155/2014/396529>, pp. 1-12, Hindawi Publications, USA. 2014.
30. Keyur Parmar, Devesh C Jinwala. "Symmetric-Key Based Homomorphic Primitives for End-to-End Secure Data Aggregation in Wireless Sensor Networks " In: Journal of Information Security, Vol 6, Issue 1, pp 38-50, DoI: <http://dx.doi.org/10.4236/jis.2015.61005>, Scientific Research Publishing, ISSN Print: 2153-1234, ISSN Online: 2153-124, Dec 2014.
31. Vivaksha Jariwala, Vishal Singh, Prafulla Kumar, Devesh C. Jinwala. "Investigating Approaches of Data

Integrity Preservation for Secure Data Aggregation in Wireless Sensor Networks.” In: Journal of Information Security, Scientific Research Publishing, Vol 5, Issue 1, pp. 1-11, <http://dx.doi.org/10.4236/jis.2014.51001> , ISSN Print: 2153-1234, ISSN Online: 2153-1242, 2014.

32. Sankita J Patel, Ankit Chouhan and Devesh C Jinwala. Comparative Evaluation of Elliptic Curve Cryptography based Homomorphic Encryption schemes for a Novel Security Multiparty Computation. In: Journal of Information Security, Vol 5, Issue 1, pp 12-18, DoI: <http://dx.doi.org/10.4236/jis.2014.51002>, Scientific Research Publishing, ISSN Print: 2153-1234, ISSN Online: 2153-124, January 2014.

2013

33. Dhruvi Sharma and Devesh Jinwala; “Key Generation Protocol in IBC”, In: **International Journal of Network Security**, Vol. 15, No. 5, 2013, pp. 341-349, Femto Technology Co. Ltd. Publishing, Korea, ISSN: 1816-353X, 2013. (DBLP)
34. Heta K Desai and Devesh C Jinwala. “Secure Aggregation of Exact Sum Queries with Integrity Protection for Wireless Sensor Networks.” In: **International Journal of Computer Applications** Vol. 73, Issue 15, pp. 9-17, July 2013. Published by Foundation of Computer Science, New York, USA.

2012

35. Rutvij H Jhaveri, Sankita J Patel, Devesh C Jinwala; “Improving Route Discovery for AODV to Prevent Blackhole and Grayhole Attacks in MANETs” In: **INFOCOMP (International) Journal of Computer Science**, Vol 11, Issue 1, pp. 1-12, Federal University of Lavras, Brazil, ISSN: 1807-4545, 2012.
36. Rashmi Phalnikar, Devesh C. Jinwala “Optimal Web Service Selection Using UML Profile”, **Journal on Computing : Global Science and Technology Forum GSTF**, Vol. 2, No. 1, February 2012

2011

37. Shraddha Dulera, Devesh Jinwala, Aroop Dasgupta, “Experimenting with the Novel Approaches in Text Steganography”, **International Journal of Network Security & Its Applications (IJNSA)**, Vol 3, Issue 6, pp. 213-225, ISSN: Online - 0974 – 9330, ISSN: Print - 0975 - 2307, November 2011.
38. Vivaksha Jariwala, Devesh Jinwala, “Evaluating Homomorphic Encryption Algorithms for Privacy in Wireless Sensor Networks”, **IJACT: International Journal of Advancements in Computing Technology**. Vol 6, No 3, pp. 215-223, July 2011. (DBLP)
39. Dhara Buch, Devesh Jinwala, “Prevention of Wormhole Attack in Wireless Sensor Networks”, **International Journal of Network Security & Its Applications (IJNSA)**, Vol 3, Issue 5, pp. 85-98, ISSN: Online - 0974 – 9330, ISSN: Print - 0975 - 2307, September 2011

2010

40. Nitish Dalal, Jenny Shah, Khusboo Hisariya, Devesh Jinwala, “A Comparative Analysis of Tools for Verification of Security Protocols” **International Journal of Communications, Networks and System Sciences.**, Vol 3, pp. 779-787, Scientific Research Publications, USA., ISSN: 1913-3715(Print), 1913-3723(Online), October 2010 (DBLP).
41. Vivaksha Jariwala, D C Jinwala, “Evaluating Galois Counter Mode in Link Layer Security Architecture for Wireless Sensor Networks” **International Journal of Network Security and Its Applications**, Vol 2 No. 4, pp. 55-65, ISSN : 0974 - 9330[Online]; 0975- 2307 [Print], October 2010.
42. Ami T. Choksi, Devesh Jinwala, “Improving Semantic Matching of Grid Resources Using Refined Ontology with Complement Class”, **IJACT: International Journal of Advancements in Computing Technology**,

Vol. 2, No. 5, pp. 129 ~ 139, AICIT, Korea, ISSN:2319-7900, 2010. (DBLP)

43. Neeta S. Bosamiya, Devesh Jinwala, "Energy Efficient Optimized Hybrid Approach for time Synchronization in Wireless Sensor Networks" **International Journal of Advanced Research in Computer Science (IJARCS)**, Vol. 1, No. 4, pp. 242–250. (ISSN No. 0976-5697), 2010.

2009

44. Devesh Jinwala, Dhiren Patel, Kankar Dasgupta. "FlexiSec: A Configurable Link Layer Security Architecture for Wireless Sensor Networks." **Journal of Information Assurance & Security**, Vol 4, Issue 6, pp. 582-603, Special Issue on Information Assurance and Data Security, Dynamic Publishers, USA., ISSN 1554-1010, 2009.
45. Devesh Jinwala, Dhiren Patel, Kankar Dasgupta. "Investigating and Analysing the Light-weight ciphers for Wireless Sensor Networks". **INFOCOMP (International) Journal of Computer Science**, Vol 8, Issue 2, pp. 39-50, Federal University of Lavras, Brazil, ISSN: 1807-4545, 2009.
46. Devesh Jinwala, Dhiren Patel, K S Dasgupta. "Optimizing the Replay Protection at the Link Layer Security Framework in Wireless Sensor Networks." In: **IAENG International Journal of Computer Science, International Association of Engineers Publication, Hong Kong**. ISSN: 1819-9224; 1819-656X. Accepted and To Be Published in 2010.
47. N H Mistry, D C Jinwala, M A Zaveri. "MOSAODV: Solution to Secure AODV against Blackhole Attack." In: **International Journal of Computer and Network Security**. Vol 1, Issue 3, Dec 2009, pp. 42-46, ISSN No: 2076-2739, Austria, Vienna.

Publications – Springer LNCS/CCIS/ASIC/LNEE Series :

2015

1. Dhruvi Sharma, Devesh C Jinwala. "Functional Encryption in IoT E-Health Care System." In: Proceedings of the 11th International Conference on Information Systems Security (ICISS 2015), Jadavpur University, Kolkata, Editors: Sushil Jajodia, Chandan Maazumdar, pp. 345-363, Lecture Notes in Computer Science 9478, Springer-Verlag, Springer, Berlin/Heidelberg, 2015 (DBLP).
2. Keyur Parmar, Devesh C Jinwala. "Hybrid Secure Data Aggregation in Wireless Sensor Networks." In: Proceedings 5th International Workshop on Design, Modeling, and Evaluation Cyber Physical Systems (CyPhy 2015), Amsterdam, The Netherlands. Editors: Christian Berger, Mohammad Reza Mousavi, pp. 116-131, Lecture Notes in Computer Science 9361, Springer-Verlag, Springer, Berlin/Heidelberg, 2015 (DBLP)

2014

3. Mukti Padhya, Devesh C Jinwala. "A Novel Approach for Searchable CP-ABE with Hidden Ciphertext-Policy." In: Proceedings of the 4th International Conference on Information Systems Security (ICISS 2014), IDRBT, Hyderabad., Editors: Atul Prakash, Rudrapatna K. Shyamasundar, pp. 167-184, Lecture Notes in Computer Science series, Springer-Verlag, Springer, Berlin/Heidelberg, 2014 (DBLP)
4. Keyur Parmar, Devesh C Jinwala. "Malleability Resilient Concealed Data Aggregation"; In: Proceedings of the 20th EUNICE Open European Summer School and Conference (EUNICE 2014), Telecom Bretagne, Rennes, France. Editors: Annie Gravey, Yvon Kermarrec, Jean-Marie Bonnin, pp. 160-172, Lecture Notes in Computer Science series Springer-Verlag, Springer, Berlin Heidelberg. 2014. (DBLP).

5. Keyur Parmar, Devesh C Jinwala, "Aggregate MAC Based Authentication for Secure Data Aggregation in Wireless Sensor Networks"; In: Proceedings of the 2014 10th International Conference on Intelligent Computing Methodologies (ICIC2014), Taiyuan, China; Editors: De-Shuang Huang, Kang-Hyun Jo, Ling Wang, pp. 475-483, Lecture Notes in Computer Science series of Springer-Verlag, Springer, Berlin Heidelberg. ISBN: 978-3-319-09338-3, 2014. (DBLP).
6. Vivaksha Jariwala, Prafulla Kumar, Devesh Jinwala, "A Novel Bloom Filter Based Variant of Elliptic Curve Digital Signature Algorithm for Wireless Sensor Networks"; In: Proceedings of the 5th International Conference on Networks & Communications (NETCOM - 2013); Editors: Natarajan Meghanathan, Dhinaharan Nagamalai, Sanguthevar Rajasekaran, pp.125-137, Vol 284, Lecture Notes in Electrical Engineering series of Springer-Verlag, Springer, Berlin Heidelberg. ISBN: 978-3-319-03691-5 (Print) 978-3-319-03692-2 (Online), 2014.

2013

7. Sankita Patel, Viren Patel, Devesh C. Jinwala. "Privacy Preserving Distributed K-Means Clustering in Malicious Model Using Zero Knowledge Proof." In: *Proceedings of The 9th International Conference on Distributed Computing and Internet Technology, (ICDCIT 2013), Bhubaneswar, India*, February 5-8, 2013. Eds.: Chittaranjan Hota and Pradip K. Srimani; pp. 420-431, Springer Lecture Notes in Computer Science LNCS) Series, ISBN 978-3-642-36070-1, 978-3-642-36071-8, 2013. (DBLP).

2012

8. Sankita Patel, Sweta Garasia, Devesh C. Jinwala. "An Efficient Approach for Privacy Preserving Distributed K-Means Clustering Based on Shamir's Secret Sharing Scheme." In: *The Proceedings of Trust Management VI - 6th IFIP WG 11.11 International Conference*, IFIPTM 2012, Surat, India, Eds.: Theo Dimitrakos, Rajat Moona, Dhiren Patel, D. Harrison McKnight; pp. 129-141, IFIP Springer Advances in Information and Communication Technology (AICT) Series, ISBN 978-3-642-29851-6, 2012. (DBLP)
9. Ami T. Choksi, Devesh C. Jinwala. "A Novel Approach for Web Services Discovery using Rough Sets" In: *Proceedings of the International Conference on Soft Computing for Problem Solving (SocProS 2011)*, IIT, Roorkee. Eds. Deep, K.; Nagar, A.; Pant, M.; Bansal, J.C., pp. 759-771, Springer-Verlag Advances in Intelligent and Soft Computing Series, Volume 130/2012, DOI: 10.1007/978-81-322-0487-9_7, 2012. (DBLP).
10. Nishant Doshi, Devesh Jinwala. "AB-OR: Improving the Efficiency in Onion Routing Using Attribute Based Cryptography" In the Proceedings of The Fourth International Conference on Networks & Communications (NETCOM 2012)", pp. 425-432, Springer- New York LNEE Series #131, 2012.

2011

11. Bhumika Patel, Devesh Jinwala. "Anonymity in Attribute-based Group Signatures." In: *the Proceedings of The International Conference on Advanced Computing, Networking and Security (ADCONS 2011)*, NIT Karnataka, Surathkal, pp.495-504, Springer-Verlag LNCS Series #7135, Dec 2011 (DBLP)
12. Pawan Bhalhare, Devesh Jinwala. "A Sensitive Attribute-based Clustering Method for kanonymization." In: *the Proceedings of The International Conference on Advanced Computing, Networking and Security (ADCONS 2011)*, NIT Karnataka, Surathkal, pp. 163-170, Springer-Verlag LNCS Series #7135, Dec 2011 (DBLP).
13. Nishant Doshi, Devesh Jinwala. "Hidden Access Structure Ciphertext Policy Attribute-based Encryption With Constant Length Ciphertext" In: *the Proceedings of The International Conference on*

Advanced Computing, Networking and Security (ADCONS 2011)", NIT Karnataka, Surathkal, pp. 515-523, Springer-Verlag LNCS Series #7135, Dec 2011 (DBLP).

14. Bhumika Patel, Devesh Jinwala. "Exploring Homomorphic Encryption in Wireless Sensor Networks" In: *The Proceedings of the International Conference on Informatics Engineering & Information Science (ICIEIS 2011)*", Kuala Lumpur, Malaysia, Eds : A Abd Manaf et. al., Volume 251, Part 2, pp. 400-408, Communications in Computer and Information Science (CCIS) Series, Springer-Verlag, Heidelberg, 2011.
15. Mayuri A Mehta, Devesh Jinwala." Analytical Parametric Evaluation of Dynamic Load Balancing Algorithms in Distributed Systems." In: *Proceedings of the International Conference on Advances in Information Technology and Mobile communications (AIM 2011)*. Eds: Das, Vinu V, Thomas, Gylson, Lumban Gaol, Ford, pp. 388-391, Vol. 147, Communications in Computer and Information Science (CCIS) Series, Springer-Verlag, Heidelberg, ISBN: 978-3-642-20573-6, 2011.

2010

16. Neeta S Bosamiya, Devesh Jinwala. "Optimizing the Hybrid Approach for Time Synchronization in Wireless Sensor Networks." In: *Proceedings of the International Conference on Recent Trends in Business Administration and Information Processing, BAIP 2010*), Trivandrum, India, pp. 169-174, Communications in Computer and Information Science (CCIS) Series, Springer-Verlag, Heidelberg, Mar 2010. (DBLP)

2008

17. Devesh Jinwala, Dhiren Patel, K S Dasgupta; "Optimizing the Block Cipher & Modes of Operations Overhead at the Link Layer Security Framework in the Wireless Sensor Networks." In: *Proceedings of the 4th International Conference on Information Systems Security*, LNCS, pp. 258-272, Springer Berlin/Heidelberg, 2008 (DBLP)

Publications - International Conférences :

2016

1. Himanshu Patel, Devesh C Jinwala, Dhrien R Patel. "Baseline Intrusion Detection Framework for 6LoWPAN Devices" In *Adjunct Proceedings of the 13th International Conference on Mobile and Ubiquitous Systems: Computing Networking and Services (MOBIQUITOUS 2016)*. ACM, New York, NY, USA, 72-76. DOI: <https://doi.org/10.1145/3004010.3004018>
2. Kaushal Shah and Devesh C. Jinwala. "A secure expansive aggregation in Wireless Sensor Networks for linear infrastructures." In Region 10 Symposium (TENSYP), 2016 IEEE, pp. 207-212. IEEE, 2016.
3. Unnati S. Shah, Sankita Patel, Devesh Jinwala. "Specification of Non-Functional Requirements: A Hybrid Approach" REFSQ Workshops, 2016 (DBLP)

2014

4. Komal Bharukha, Devesh C Jinwala. "A secure data aggregation protocol for outlier detection in wireless sensor networks using aggregate Message Authentication Code" In: *Proceedings of the IEEE 9th International Conference on Industrial and Information Systems (ICIIS)*, ABVIITM, Gwalior, pp. 1-6, IEEE, Print ISBN: 978-1-4799-6499-4 DOI: 10.1109/ICIINFIS.2014.7036622, 2014.
5. Himanshu Patel, Devesh C Jinwala. "E-LEACH: Improving the LEACH protocol for privacy preservation in secure data aggregation in Wireless Sensor Networks." In: *Proceedings of the IEEE 9th International*

Conference on Industrial and Information Systems (ICIIS), ABVIITM, Gwalior, pp. 1-5, IEEE, Print ISBN: 978-1-4799-6499-4 DOI: 10.1109/ICIINF5.2014.7036607, 2014.

6. Shivangi Surti, Devesh C Jinwala, Sanjay Garg. "A Peer-to-Peer Multiway Tree Network with Efficient Range Query Search using Multidimensional Indexing." In: Proceedings of the Fourth International Conference on Digital Information and Communication Technology and its Applications (DICTAP2014), pp. 1-6, University of the Thai Chamber of Commerce (UTCC), Bangkok, Thailand, May 6-8, 2014. Sponsored by : The Society of Digital Information and Wireless Communications (SDIWC) and IEEE Thailand Section, ISBN: 978-1-4799-3723-3, IEEE Conference Publications, 2014. (IEEE Explore).
7. Vivaksha J Jariwala, Devesh C. Jinwala. "Privacy and Integrity Preserving Secure Data Aggregation in Wireless Sensor Networks." In: Proceedings of the 11th International Workshop on Security in Information Systems - WOSIS 2014 - In conjunction with the 16th International Conference on Enterprise Information Systems - ICEIS 2014, 27 April, 2014 - Lisbon, Portugal. Eds. David G. Rosado, Carlos Blanco, Daniel Mellado, Jan Jürjens and Luis Enrique Sánchez, Science & Technology Publications (SciTe) Press, 2014 (DBLP)
8. Greeshma Sarath, Devesh C Jinwala and Sankita J Patel. "A Survey on Elliptic curve Digital signature algorithm and its variants." In: Proceedings of the Second International Conference on Database and Data Mining (DBDM-2014), Dubai, Eds: Dhinakaran Nagamalai et al. (Eds); pp. 121-136, Computer Science & Information Technology (CS & IT) Series, AIRCC Publishing Corporation, DOI : 10.5121/csit.2014.4411, 2014.

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9. Nirali R. Nanavati, Devesh C. Jinwala. "A Game Theory based Repeated Rational Secret Sharing Scheme for Privacy Preserving Distributed Data Mining." In: *The Proceedings of the SECUREPT 2013: International Conference on Security and Cryptography*, Reykjavik, Iceland, 29-31 July, 2013. Rome, Italy. Eds.:Pierangela Samarati pp. 512-517, Science & Technology Publications (SciTe) Press, ISBN 978-989-8565-73-0, 2013. (DBLP)
10. Hasmukh Patel, Devesh C Jinwala. "Modeling and analysis of internet key exchange protocolv2 and a proposal for its variant" In: Compute '13: Proceedings of the 6th ACM India Computing Convention, Article No. 15, Published by ACM New York, NY, USA, ISBN: 978-1-4503-2545-5 doi>10.1145/2522548.252313, 2013.
11. Nishant Doshi, Devesh Jinwala, "Updating Attribute in CP-ABE: A New Approach", In: IJCA Proceedings on International Conference in Distributed Computing and Internet Technology 2013 ICDCIT: pp. 23-28, January 2013. Published by Foundation of Computer Science, New York, USA, 2013.

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12. Nirali R. Nanavati, Devesh C. Jinwala. "Privacy Preserving Approaches for Global Cycle Detections for Cyclic Association Rules in Distributed Databases." In: *The Proceedings of the SECUREPT 2012: International Conference on Security and Cryptography*, Rome, Italy, 24-27 July, 2012. Eds.:Pierangela Samarati, Wenjing Lou, Jianying Zhou, pp. 368-371, Science & Technology Publications (SciTe) Press, ISBN 978-989-8565-24-2, 2012. (DBLP)
13. Nirali Nanavati, Devesh Jinwala; "Privacy Preservation for Global Cyclic Associations in Distributed Databases", In: *Proceedings of the 2nd International Conference on Communication, Computing & Security*;

Edited By Sanjay Kumar Jena and Banshidhar Majhi, Volume 6, Pages 962–969, Procedia Technology, Elsevier, 2012.

14. Mayuri Mehta, Devesh Jinwala, "Analysis of Significant Components for Designing an Effective Dynamic Load Balancing Algorithm in Distributed Systems" *Proceedings of 3rd International Conference on Intelligent Systems, Modeling and Simulation, ISMS2012*, Kota Kinabalu, Malaysia, pp. 203-207, IEEE Computer Society Conference Publication Services, 2012 (IEEE Explore).
15. Rutvij H. Jhaveri, Sankita J. Patel and Devesh C. Jinwala, "A Novel Solution for Grayhole Attack in AODV Based MANETs", In *Proceedings of the 3rd International Conference on Advances in Communication, Network and Computing*, pp. 60-67, Springer Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering (LNICSITE) Series Publication, February 2012.
16. Mehta, M.A. ; Agrawal, S. ; Jinwala, Devesh C. "Novel algorithms for load balancing using hybrid approach in distributed systems." In *Proceedings of the 2nd IEEE International Conference on Parallel Distributed and Grid Computing (PDGC)*, Jaypee University of Information Technology, Solan, pp.: 27-32, IEEE Conference Publications, 2012 (IEEE Explore).

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17. Doshi Nishant, Jinwala Devesh. "Using Ciphertext Policy Attribute Based Encryption for Verifiable Secret Sharing". *Proceedings of The 2011 International Conference on Security & Management* at World Congress in Computer Science, Computer Engineering, and Applied Computing, Las Vegas, USA, July 18-21, Vol. 2, pp. 203-207, World Academy of Science Publication, CSREA Press, USA. ISBN : 1-60132-196-1, 1-60132-197-X (1-60132-198-8), 2011.
18. Mayuri Mehta, Devesh Jinwala. "A Hybrid Dynamic Load Balancing Algorithm for Heterogeneous Environments" *Proceedings of The 2011 International Conference on Grid Computing and Applications* at World Congress in Computer Science, Computer Engineering, and Applied Computing, Las Vegas, USA, July 18-21; Eds: Hamid R. Arabnia, George A. Gravvanis, Ashu M. G. Solo, Vol. 2, pp. 61-66, World Academy of Science Publication, CSREA Press, USA. ISBN :1-60132-181-3. (DBLP)
19. Vivek Patel, Sankita Patel, Devesh Jinwala. "A Novel Approach for Light Weight User Authentication Scheme in Wireless Sensor Network." *Proceedings of The 2011 International Conference on Security & Management* at World Congress in Computer Science, Computer Engineering, and Applied Computing, Las Vegas, USA, July 18-21, Vol. 2, pp. 749-755, World Academy of Science Publication, CSREA Press, USA. ISBN : 1-60132-196-1, 1-60132-197-X (1-60132-198-8), 2011.
20. Dhruvi Sharma, Devesh Jinwala. "An ID based Secure Key Generation Protocol." *Proceedings of the 2nd International Conference on Computer and Communication Technology*, MANIT, Allahabad, pp.416 - 421, IEEE, Sep 2011. (IEEE Xplore).
21. Nishant Doshi, Devesh Jinwala."Constant ciphertext length in multi-authority ciphertext policy attribute based encryption." *Proceedings of the 2nd International Conference on Computer and Communication Technology*, MANIT, Allahabad, pp.451-456, IEEE, Sep 2011. (IEEE Xplore).

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22. Nital Mistry, Devesh Jinwala, Member, Mukesh Zaveri. "Improving AODV Protocol against Blackhole Attacks." *Proceedings of the International Conference on Control and Automation under the*

International Multi-Conference of Engineers and Computer Scientists, Hong Kong, pp. 1034-1039, International Association of Engineers Publication, Mar 2010.

23. Bhumika Patel, Devesh C. Jinwala. "Investigating Identity Based Cryptography in Wireless Sensor Networks." *Proceedings of the International Conference on Advances in Communication, Network and Computing, CNC 2010*, pp. 143-148, IEEE Computer Society Publication, OCT 04-05, 2010, Calicut, India

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24. Tanmay Shah, Devesh Jinwala. "Code Attestation using Merkle Hash Trees." In: *SENNT 09: Proceedings of the 2nd International Conference on Sensors and Related Networks*, Vellore, India, Dec 2009
25. Vivaksha Jariwala, Devesh Jinwala. "A taxonomy of security attacks on the advanced encryption standard." In: *ICIS '09: Proceedings of the 2nd International Conference on Interaction Sciences*, Seoul, Korea, pp. 1302-1305, ACM Press, NY, USA, 2009. (DBLP)
26. Devesh Jinwala, Dhiren Patel, Sankita Patel, K S Dasgupta. "Replay Protection at the Link layer Security in Wireless Sensor Networks." In: *Proceedings of the 2009 World Congress on Computer Science and Information Engineering (CSIE 2009)*, Los Angeles/Anaheim, USA, pp. 160-165, IEEE Computer Society, 2009.
27. Neeta S. Bosamiya, Devesh Jinwala, Analysis Of Time Synchronization Protocols In Wireless Sensor Networks, In: *Proceedings of International conference on Advances in Recent Technologies in communication and computing (ARTCom 2009)*, Kottayam, pp. 39-41, IEEE Computer Society 2009, ISBN 978-0-7695-3845-7, 2009. (DBLP)

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28. Devesh C. Jinwala, Dhiren R. Patel, Kankar S Dasgupta; "Optimizing the Block Cipher Resource Overhead at the Link Layer Security Framework in the Wireless Sensor Networks"; In: *Proceedings of the International Conference on Wireless Networks at World Congress on Engineering*, Imperial College, London, UK, pp 770-775, International Association of Engineers (IAENG) Publication, ISBN No 978-988-98671-9-5, 2008.
29. Devesh C. Jinwala, Dhiren R. Patel, Kankar S Dasgupta; "Configurable Link Layer Security Architecture for Wireless Sensor Networks"; In: *Proceedings of the International Conference on Wireless Networks at World Congress on Engineering*, Imperial College, London, UK, pp 776-780, International Association of Engineers (IAENG) Publication, ISBN No 978-988-98671-9-5, 2008

2007

30. Devesh Jinwala, Dhiren Patel, K S Dasgupta; "A Security Attributes driven taxonomy of Wireless Sensor Network Applications"; *Proceedings of the (Indian Nuclear Society and University of Applied Sciences, Germany sponsored) International Conference on Sensors and Related Networks (SENET 07)* at Vellore Institute of Technology (VIT), Vellore, pp. 313-319, Allied Publishers, ISBN No: 81-8424-263-8, Dec 2007.
31. Devesh Jinwala, Dhiren Patel, K S Dasgupta; "An experimental evaluation of the optimized AES block cipher for Wireless Sensor Networks"; *Proceedings of the (Indian Nuclear Society and University of Applied Sciences, Germany sponsored) International Conference on Sensors and Related Networks*

(SENET 07) at Vellore Institute of Technology (VIT), Vellore, pp. 326-331, Allied Publishers, ISBN No: 81-8424-263-8, Dec 2007

2006

32. Devesh Jinwala, Dhiren Patel, K S Dasgupta; "Analysis of the Security overhead in Link Layer Security Architecture on a Tiny Microthreaded Environment for Wireless Networked Sensors"; Proceedings of the (Cryptology Research Society of India sponsored) *International Conference on Information Security and Computer Forensics ISCF-2006*; S.R.M.UNIVERSITY, Chennai; pp. 89-96, Allied Publishers, ISBN No: 81-8424-141-0, Dec. 2006.
33. Devesh Jinwala, Dhiren Patel, K S Dasgupta; "A Comparative Analysis of the TinySec and SenSec Link Layer Security Architectures on a tiny microthreaded environment for Wireless Networked Sensors"; Proceedings of the (Computer Society of India sponsored) *3rd International Conference on Mobile, Ubiquitous & Pervasive Computing (ObCom 2006)* Vellore Institute of Technology (VIT), Vellore,, pp 117-127, MacMillan India, ISBN 10: 0230-63010-3, ISBN 13: 978-0230-63010-9, Dec 2006.

Publications - National Journals :

2006

1. Devesh Jinwala, Dhiren Patel, K S Dasgupta; "A Survey of the Security Issues in Wireless Sensor Networks"; ADIT Journal of Engineering, pp nos 17-29. Vol 3 Number 1, ISSN 09733663, issue Dec-2006

Publications - National Conferences/Symposiums/Poster Presentations:

2015

1. Kaushal Shah, Devesh C Jinwala. "An Expansive Aggregation Scheme Providing Confidentiality in Linear Wireless Sensor Networks", in Proceedings of the 15th National Workshop on Cryptology; Organized by the Cryptology Research Society of India and the School of Computer Engineering, KIIT University, Bhubaneswar, Odisha, Sep 2015.
2. Kaushal Shah, Devesh C Jinwala. "Expansive Aggregation in Wireless Sensor Networks for Linear Infrastructure", Security & Privacy Symposium, IIIT, Delhi, Feb 13-15, 2015.
3. S. Surati, Devesh C. Jinwala, and S. Garg. "Investigating Approaches for Optimizing Multidimensional Query Search using Multiway Tress in Peer-to-Peer Networks". Poster presented at IRISS '15: Inter-Research-Institute Student Seminar in Computer Science, ACM Annual India Event, BITS Pilani, Goa, India
4. Rashmi Phalanikar, Devesh C Jinwala, "Investigating Approaches for Optimizing Multidimensional Query Search using Multiway Tress in Peer-to-Peer Networks". Poster presented at IRISS '15: Inter-Research-Institute Student Seminar in Computer Science, ACM Annual India Event, BITS Pilani, Goa, India
5. Sankita Patel, Devesh C Jinwala, "Investigating Approaches for Privacy Preserving Distributed K-Means Clustering in Semi-honest and Malicious Adversary Model". Poster presented at IRISS '15: Inter-Research-Institute Student Seminar in Computer Science, ACM Annual India Event, BITS Pilani, Goa, India.

2014

6. Vivaksha Jariwala, Devesh C Jinwala, Prafulla Kumar. "Investigating Approaches for Secure Data Aggregation in Wireless Sensor Networks" Security & Privacy Symposium, IIT, Kanpur, Feb 20-22, 2014.
7. Urvi Narang, Sankita Patel and Devesh C Jinwala. "Privacy Preserving Clustering using Fully Homomorphic Encryption." Security & Privacy Symposium, IIT, Kanpur, Feb 20-22, 2014.
8. Ankit Chouhan, Sankita Patel and Devesh C Jinwala. "Comparative Analysis of Elliptic Curve Cryptography based Algorithms to implement Privacy Preserving Clustering through Secure Multiparty Computation." Security & Privacy Symposium, IIT, Kanpur, Feb 20-22, 2014.
9. Nirali Nanavati, Devesh C Jinwala. "Investigating Privacy Preserving Approaches For Collaborative Association Rule Mining" 4th IDRBT PhD Colloquium, IDRBT, Hyderabad, 2014.
10. Keyur Parmar Devesh C Jinwala. "End to End Secure Data Aggregation in Wireless Sensor Networks." ICISS PhD Colloquim, ICISS 2014 at IDRBT, Hyderabad, 2014.

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11. Vivaksha Jariwala, Devesh C Jinwala, Prafulla Kumar. "A New Framework for Privacy Preserving Secure Data Aggregation in Wireless Sensor Networks." Security & Privacy Symposium, IIT, Kanpur, March 28-April 1, 2013.
12. Nishant Doshi, Devesh C Jinwala. "Investigating the Approaches for improving the Ciphertext Policy Attribute Based Encryption schemes." Security & Privacy Symposium, IIT, Kanpur, March 28-April 1, 2013.
13. Nirali Nanavati, Devesh C Jinwala. "A Novel Privacy Preserving Game Theoretic Repeated Rational Secret Sharing Scheme For Distributed Data Mining." Security & Privacy Symposium, IIT, Kanpur, March 28-April 1, 2013.
14. Sankita Patel, Devesh C Jinwala. "Privacy Preserving Distributed K-Means Clustering in Malicious Model." Security & Privacy Symposium, IIT, Kanpur, March 28-April 1, 2013.

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15. Sankita Patel, Viren Patel, Devesh Jinwala. "Distributed Privacy Preserving K-Means clustering in Malicious model using Zero Knowledge Proof." Proceeding of the 12th National workshop on Cryptology, Cryptology Research Society of India and the VIT University Vellore, Tamilnadu, Aug 6-8, 2012.
16. Vivaksha Jariwala, Asha Munjpara, Devesh Jinwala, Dhiren Patel, "Comparative Evaluation of ECC Based Homomorphic Encryption Algorithms in TOSSIM for Wireless Sensor Networks", Proceedings of the National Workshop on Cryptology, Cryptology Research Society of India and VIT, Vellore, TN, pp. 1-14, 2012.
17. Nishant Doshi, Devesh Jinwala. "Updating attribute in CP-ABE: A New Approach." Proceedings of the 12th National Workshop on Cryptology, Research Society of India and the VIT University Vellore, Tamilnadu, pp.91-109, 2012.

18. Riddhi Mankad, Devesh Jinwala. "Investigating Multi-Authority Attribute Based Encryption with Revocation." Proceedings of the 12th National Workshop on Cryptology, Cryptology Research Society of India and the VIT University Vellore, Tamilnadu, pp. 26-44, 2012.

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19. Pawan Bhaladare, Devesh Jinwala. "A sensitive Attribute based Clustering for k-anonymization", Proceedings of the 11th National Workshop on Cryptology, Cryptology Research Society of India and the NIIT University Neemrana, Rajasthan, Sep 23-24, 2011.
20. Nishant Doshi, Devesh Jinwala. "Constant Cipher-text Length in CPABE." Proceedings of the 11th National Workshop on Cryptology, Cryptology Research Society of India and the NIIT University Neemrana, Rajasthan, Sep 23-24, 2011.

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21. Neeta Bosamiya, Devesh Jinwala; "Energy Efficient Optimized Hybrid Approach for Time Synchronization in Wireless Sensor Networks", Proceedings of the 10th National Workshop on Cryptology, Cryptology Research Society of India and PSG Institute of Technology, Coimbatore, pp. 105-112, 2010.
22. Vivaksha Jariwala, Devesh Jinwala; "A Novel Approach for Secure Data Aggregation in Wireless Sensor Networks", Proceedings of the 10th National Workshop on Cryptology, Cryptology Research Society of India and PSG Institute of Technology, Coimbatore, pp. 12-17, 2010.
23. Keyur Parmar, Devesh Jinwala; "A Novel Approach for Verifiable Secret Sharing using a One way Hash Function", Proceedings of the 10th National Workshop on Cryptology, Cryptology Research Society of India and PSG Institute of Technology, Coimbatore, pp. 18-23, 2010.

2009

24. N.H. Mistry, D.C. Jinwala, M. A. Zaveri; "Prevention of Blackhole attack in MANET", Proceedings of the National Woman's Conference on Exploring Potentialities of Women in Engineering, (EPWIE), pp. 89-94, 2009.

2006

25. Devesh Jinwala; "**Ubiquitous Computing:Wireless Sensor Network Deployment, Models, Security, Threats and Challenges**"; *National conference NCIIRP-2006, SRMIST, Tarsadi, Bardoli*, April 2006. **Won the best paper award and a cash prize**
26. Devesh Jinwala, Rupa Mehta; "Static and Dynamic analysis of the input C programs using splint & glass box testing, on linux platform" *National conference NCIIRP-2006, SRMIST, Tarsadi, Bardoli*, April 2006.
27. Devesh Jinwala, Dhiren Patel, K S Dasgupta; "Affordable Security in Wireless Sensor Networks"; *Proceedings of the 41st Annual National Convention at CSI Science City, Kolkata*, pp. 63-67, Tata McGraw-Hill, ISBN No: 0-07-062171-3, November 2006.

Conferences / Workshop / Seminar Short Courses etc. organized:

Coordinator OR Joint–Coordinator as well as Lead Faculty for the courses viz.

1. Jointly Coordinator for the TEQIP-II Sponsored FDP on “**Data and Analysis of Algorithms**”, organized at the Computer Engineering Department, S V N I T, during the period May 23-27, 2016
2. Jointly Coordinator for the TEQIP-II Sponsored FDP on “Software Requirements Specifications” , organized at the Computer Engineering Department, S V N I T, during the period May 9-13, 2016
3. Jointly Coordinator for the TEQIP-II Sponsored 5-Day Short Term Training Programme on “**Privacy Preserving Data Mining (PPDM 2015)**”, during the period May 25-29, 2015, at COED, SVNIT.
4. Coordinator for the TEQIP-II Sponsored 5-Day Short Term Training Programme on “**Design and Analysis of Algorithms (DAA 2015)**”, during the period May 18-22, 2015, at COED, SVNIT.
5. Jointly Coordinator for the DeITY, Ministry of Communications and Information Technology, Govt of India, sponsored Five days STTP on “**Wireless Sensor Networks: Secure Data Aggregation and Related Issues**”, during the period July 14-18, 2014 at COED, SVNIT.
6. Coordinator for the TEQIP-II Sponsored 5-Day Short Term Training Programme on “**Wireless Sensor Networks: Secure Data Aggregation and Related Issues (WSNSDARI 2013)**”, during the period July 15-19, 2013, at COED, SVNIT.
7. Jointly Coordinator for the TEQIP II sponsored Five days STTP on “**Wireless Sensor Networks: Applications and Security Issues**”, during the period May 20-25, 2013 at COED, SVNIT.
8. Coordinator for the ISEAP Seminar on “**Wireless Sensor Networks: Security Issues and Applications**”, during the period Jan 12-13, 2011, at COED, SVNIT.
9. Coordinator for the AICTE STTP on “**ADA 2010: Analysis and Design of Algorithms**” during the period Jan 4-8, 2010 at COED, SVNIT.
10. Organizing Secretary for the **9th National Workshop on Cryptology, 2009** organized during Aug 7-9 2009, under the aegis of the Cryptology Research Society of India and sponsored by the Department of Science and Technology, Ministry of Information and Communication Technology and Council of Scientific and Industrial Research – fetching grants of Rs 4.25 lakhs.
11. Jointly Coordinator for the AICTE STTP on **Cyber Security** at SVNIT, Surat from Jan 19-23, 2009.
12. Jointly Program Chair for GUJCOST, TEQIP and SVNIT sponsored National Level Symposium on “**Security & Soft Computing**”, at COED, SVNIT during the period March 29-31, 2007 (Three days)
13. Ministry of IT, Gol’s ISEAP Project and TEQIP sponsored STTP on “**Information Security (IS-2007)**” during 19-24 March, 2007 at SVNIT, Surat (Six days)
14. Ministry of IT, Gol’s ISEAP Project and TEQIP sponsored “*Cyber Security and Design of Campus Network*” training at SVNIT during the period 24-26th August 2005 (Three days)
15. ISTE/AICTE STTP on “**INTERNET UNLEASHED**” organized by Department of Computer Engineering, S. V. R. College of Engg.& Tech., Surat from 15th to 27th March 1999 (Two Weeks)
16. Acted as a facilitator and resource person for laboratory exercises in United Nation’s UNU/IIST’s course on “**Specification and Verification of Real Time Systems using Duration Calculus**” – Coordinated and Acted as one of the resource person.
17. Workshop on “**Internet Technology**” for the Computer and IT professionals organized at S. V. R. College of Engg & Tech, Surat during 20th to 24th July 1998 (Five days)
18. Professional Course on “**Fundamentals of Computing and Recent Trends in Computer Data Processing (for the ONGC/GAIL employees)**” at S. V. R. College of Engg. & Tech., Surat during 20th May to 15th June 1995 (Four weeks)

Invited Talks/ Expert Lectures Delivered:

1. An Expert Lecture on **"NP-Theory"** at the Department of Information Technology, Chandubhai S Patel Institute of Technology, Changa Campus, Changa, on October 4, 2017.
2. An Expert Lecture on **"Security and Privacy in IoT"** at the Department of Information Technology, Chandubhai S Patel Institute of Technology, Changa Campus, Changa, on 6th Sept, 2017.
3. An Expert Lecture on **"Algorithms Analysis and NP-Theory"** at Shree Swami Atmanand Saraswati Institute of Technology, Surat on 22nd Sep, 2017.
4. Expert Talks on various topics in the TEQIP-II Sponsored FDP on "Data and Analysis of Algorithms", organized by Computer Engineering Department, S V N I T, during the period May 23-27, 2016
5. Expert Talks on various topics in the TEQIP-II Sponsored FDP on "Software Requirements Specifications", organized by Computer Engineering Department, S V N I T, during the period May 9-13, 2016
6. An Expert Talk on "Hot Topics in Computer Science Research in 2015" at National Conference on Emerging Vistas of Technology in 21st Century at Parul Institute of Technology, Limda, Vadodara on 8th April 2016.
7. An Expert Talk on "Security and Privacy Issues in the Internet of Things" at Vishwakarma Government College of Engineering, Chandkheda, on 6th April 2016.
8. An Expert Talk on "Resilient Secure Data Aggregation in WSNs" at the Department of Computer Science, NIT - Warangal, on 4th Apr 2016
9. An Expert Talk on **"Security and Privacy Issues in the Internet of Things"** at the QIP and CSI, Pune sponsored National Level FDP on "Intelligent Computing: Algorithms and Applications ICAA15" at the Department of Information Technology, MIT, Pune on 5th Dec 2015.
10. An Expert Talk on **"Secure Data Aggregation in Resource Constrained Environments"** at the QIP and CSI, Pune sponsored National Level FDP on "Intelligent Computing: Algorithms and Applications ICAA15" at the Department of Information Technology, MIT, Pune on 5th Dec 2015.
11. An Expert Talk on **"Design of a Link Layer Security Protocol"** at the GUJCOST sponsored 5-days Short Term Training Programmer on **Research opportunities in Information and Network Security**, at the Department of Information Technology, Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar on 1st Dec 2015.
12. An Expert Talk on **"Security and Privacy Issues in the Internet of Things"** at the GUJCOST sponsored 5-days Short Term Training Programmer on **Research opportunities in Information and Network Security**, at the Department of Information Technology, Birla Vishvakarma Mahavidyalaya, Vallabh Vidyanagar on 1st Dec 2015.
13. An Expert Talk on **"Homomorphic Encryption: The Holy Grail of Cryptography"** at the Nirma University International Conference on Engineering, Pre-Conference Tutorials at the Nirma University, Ahmedabad, on Nov 25th, 2015.
14. An Expert Talk on **"Data Aggregation in Wireless Sensor Networks"** at the ISEAP sponsored Faculty Development Program on Information Security and Challenges, at the Department of Computer Engineering, Malaviya National Institute of Technology, Jaipur, on Nov 20th, 2015.
15. An Expert Talk on **"Musings on Research"** at the Self-financed Short Term Training Programme on **Tools and Techniques for Effective Teaching and Research**, at the Department of Mechanical Engineering, S V NIT, Surat, on 29th Oct 2015.
16. An Expert Talk on **"Understanding the Outcome Based Education"** at the Self-financed Short Term Training Programme on **Tools and Techniques for Effective Teaching and Research**, at the Department of Mechanical Engineering, S V NIT, Surat, on 27th Oct 2015.
17. An Expert Talk on **"Security and Privacy Issues in the Internet of Things"** at the GUJCOST sponsored 2-days Short Term Training Programmer on **Internet of Things**, at the Department of Information Technology, Chandubhai S Patel Institute of Technology, CHARUSET University, Changa Campus, Changa, on 19th Sep 2015.
18. An Expert Talk on **"Design of a Link Layer Security Protocol"**, at the Department of Computer Science and Engineering at the Institute of Technology, Nirma University on 18th Sep 2015

19. An Expert Talk on “**Modular Arithmetic and Galois Fields**”, at the Department of Computer Science and Engineering at the Institute of Technology, Nirma University on 18th Sep 2015.
20. An Expert Talk on “**Secure Data Aggregation in Wireless Networks**”, at the TEQIP-II Sponsored Short Term Training Programme on **Wireless Networks** at the Department of Electronics Engineering, SVNIT, Surat on 3rd Sep 2015.
21. An Expert Talk on “**Musings on Research and Technical Writing in Computer Science and Engineering**”, at the Department of Computer Engineering, Sarvajani College of Engineering & Technology, Surat, 1st Aug 2015.
22. An Expert Lecture on “**How to write Research Papers and Selecting an MTech Dissertation Topic**” at the C G Patel Institute of Technology, Uka Tarsadia University, Maaliba campus, Bardoli on 11th July 2015.
23. An Expert Lecture on “**Privacy Issues in Data Mining**” at TEQIP-II Sponsored FDP on “Privacy Preserving Data Mining”, organized by Computer Engineering Department, S V N I T, on May 26th, 2015.
24. An Expert Lecture on “**Data Perturbation based Approaches for PPDM**” at TEQIP-II Sponsored FDP on “Privacy Preserving Data Mining”, organized by Computer Engineering Department, S V N I T, on May 26th, 2015.
25. An Expert Lecture on “**Zero Knowledge Protocols**” at TEQIP-II Sponsored FDP on “Privacy Preserving Data Mining”, organized by Computer Engineering Department, S V N I T, on May 28th, 2015.
26. An Expert Lecture on “**Introduction to Algorithms, Computational Problems, Analysis Techniques**” at TEQIP-II Sponsored FDP on “Data and Analysis of Algorithms”, organized by Computer Engineering Department, S V N I T, on May 18th, 2015.
27. An Expert Lecture on “**General Computational Problems, Algorithms & Asymptotic Analysis**” at TEQIP-II Sponsored FDP on “Data and Analysis of Algorithms”, organized by Computer Engineering Department, S V N I T, on May 18th, 2015.
28. Two Expert Lectures on “**The Optimization Problems and the Greedy Approach – I & II**” at TEQIP-II Sponsored FDP on “Data and Analysis of Algorithms”, organized by Computer Engineering Department, S V N I T, on May 19th, 2015.
29. An Expert Lecture on “**NP-Theory**” at TEQIP-II Sponsored FDP on “Data and Analysis of Algorithms”, organized by Computer Engineering Department, S V N I T, on May 21st, 2015.
30. An Expert Talk on “**Design of a Link Layer Security Protocol**” at Department of Information Technology, Chandubhai S Patel Institute of Technology, CHARUSET University, Changa Campus, Changa, on 13th March 2015.
31. An Expert Lecture on “**Interprocess Communication and Synchronization**” at Faculty of Engineering and Technology, Isroli, on 27th February 2015.
32. Two Expert Talks on “**Greedy Design Technique & its Applications**” and “**P-NP Theory**” at TEQIP Sponsored STTP on Computer Algorithms and Applications, BVM, Vallabh Vidyanagar on 31st Dec 2014, 1st Jan 2015.
33. An Expert Lecture on “**P-NP Theory**” at C G Patel Institute of Technology, Uka Tarsadia University, Maaliba campus, Bardoli on 26th Dec 2014.
34. A Keynote address on “**Functional Encryption**” at International Conference on Advances in Computing, Communications and Informatics CoER School of Management, Rookee, 28th Nov 2014.
35. An Expert Talk on “**How to write a Research Paper/Thesis**” at the Research Methodology Workshop organized at Gujarat Vidyapeeth, Ahmedabad, on Sep 16th, 2014.
36. An Expert Talk on “**Hop-by-Hop Security Approaches for Secure Data Aggregation in WSNs**” at DeITY, MCIT, Gol (as part of the sponsored research project) Sponsored STTP viz. WSN-SDARI 2014, organized by Computer Engineering Department, S V N I T, on July 15th, 2014.
37. An Expert Talk on “**Mathematical Foundations for Information Security – I**” at DeITY, MCIT, Gol (as part of the sponsored research project) Sponsored STTP viz. WSN-SDARI 2014, organized by Computer Engineering Department, S V N I T, on July 14th, 2014.

38. An Expert Talk on “**Security Issues in WSNs and Countermeasures**” at DeITY, MCIT, Gol (as part of the sponsored research project) Sponsored STTP viz. WSN-SDARI 2014, organized by Computer Engineering Department, S V N I T, on July 14th, 2014.
39. An Expert Talk on “**Introduction to the WSNs and Applications**” at DeITY, MCIT, Gol (as part of the sponsored research project) Sponsored STTP viz. WSN-SDARI 2014, organized by Computer Engineering Department, S V N I T, on July 14th, 2014.
40. An Expert Talk on “**Cryptographic Approaches for Privacy Preservation in Data Mining**” at the ISTE approved STTP titled “BIG DATA: Data Exploration and Visualization” Department of Computer Science and Engineering at the Institute of Technology, Nirma University on 10th July 2014.
41. An Expert Talk on “**Zero Knowledge Protocols**” at the ISTE approved STTP titled “BIG DATA: Data Exploration and Visualization” Department of Computer Science and Engineering at the Institute of Technology, Nirma University on July 10th, 2014.
42. An Expert Talk on “**Identification & Entity Authentication : Zero Knowledge Protocols**” at TEQIP-II Sponsored STTP viz. “Data Mining – Security and Privacy Issues, organized by Computer Engineering Department, S V N I T, on June 26th, 2014.
43. An Expert Talk on “**Functional Encryption**” at the National Conference on Emerging Vistas of Technology in 21st Century at Parul Institute of Technology, Limda, Vadodara on 4th April 2014.
44. An Expert Talk on “**Design of a Security Protocol**” at Department of Information Technology, Chandubhai S Patel Institute of Technology, Changa Campus, Changa, on 29th March 2014.
45. An Expert Talk on “**Wireless Sensor Network Applications and Security Issues**” at the 1st International Conference on contemporary Issues in Engineering and Technology at Merchant Education Campus Basna, Mahesana on 21st March 2014.
46. An Expert Lecture on “**Mathematical Foundations for Information Security & Cryptography**” at Shree Swami Atmanand Saraswati Institute of Technology, Surat on 14th March 2014..
47. An Expert Lecture on “**Understanding Block Cipher Design with AES**” at Faculty of Engineering and Technology, Tarsadi, on 7th March 2014.
48. An Expert Lecture on “**NP-Theory**” at the Department of Information Technology, Chandubhai S Patel Institute of Technology, Changa Campus, Changa, on Nov 29th, 2013.
49. An Expert Lecture on “**Security and Privacy Issues in Cloud Computing Environment**” at GUJCOST Sponsored 3-day STTP viz. Advanced Computing and Big Data organized by Department of Information Technology, Chandubhai S Patel Institute of Technology, Changa Campus, Changa, on Nov 23rd, 2013.
50. An Expert Lecture on “**Security in Wireless Sensor Networks and the Design of a Link Layer Security Architecture**”, at the TEQIP-II sponsored Three-day workshop on Attacks of Different Layers of TCP/IP and Tools for Analysis at the Department of Information Technology, National Institute of Technology, Surathkal, on October 11, 2013.
51. An Expert Lecture on “**Introduction to Wireless Sensor Networks, Applications and Link Layer Security Architecture**”, at the Nirma Institute of Tech., Ahmedabad on Aug 26th, 2013.
52. An Expert Lecture on “**Designing a Link Layer Security Architecture for Wireless Sensor Networks**” at TEQIP-II Sponsored STTP viz. WSN-SDARI 2013, organized by Computer Engineering Department, S V N I T, on July 18th, 2013.
53. An Expert Lecture on “**Mathematical Foundations for Information Security & Cryptography Mathematical Foundations for Information Security & Cryptography**” at TEQIP-II Sponsored STTP viz. WSN-SDARI 2013, organized by Computer Engineering Department, S V N I T, on July 15th, 2013.
54. An Expert Lecture on “**Introduction to Wireless Sensor Networks and Security Issues**” at TEQIP-II Sponsored STTP viz. WSN-SDARI 2013, organized by Computer Engineering Department, S V N I T, on July 15th, 2013.
55. An Expert Lecture on “**Mathematical Foundations for Information Security & Cryptography**”, at the ISTE Sponsored STTP viz. “Mathematics for Computer Engineers” at Nirma Institute of Tech., Ahmedabad on July 2nd, 2013.

56. An Expert Lecture on **“Authenticating External Nodes in a Wireless Sensor Networks”** at TEQIP-II Sponsored STTP viz. WSN-ASI 2013, organized by Computer Engineering Department, S V N I T, on May 22nd, 2013.
57. An Expert Lecture on **“The Sensor Nodes Operating Systems Primer - A tiny micro-threaded event-driven operating environment”** at TEQIP-II Sponsored STTP viz. WSN-ASI 2013 along with Himanshu Patel, organized by Computer Engineering Department, S V N I T, on May 21st, 2013.
58. An Expert Lecture on **“Designing a Link Layer Security Architecture for Wireless Sensor Networks”** at TEQIP-II Sponsored STTP viz. WSN-ASI 2013, organized by Computer Engineering Department, S V N I T, on May 21st, 2013.
59. An Expert Lecture on **“Sensor Motes Architecture and Design”** at TEQIP-II Sponsored STTP viz. WSN-ASI 2013, organized by Computer Engineering Department, S V N I T, on May 20th, 2013.
60. An Expert Lecture on **“Introduction to Wireless Sensor Networks”** at TEQIP-II Sponsored STTP viz. WSN-ASI 2013, organized by Computer Engineering Department, S V N I T, on May 20th, 2013.
61. An Expert Lecture on **“Introduction to Responsive Web Design”** at NCEVT 2013, organized by Parul Institute of Technology at Limda, Vadodara, on 10th May 2013.
62. An Expert Lecture on **“Designing a Link Layer Security Architecture for Wireless Sensor Networks”** at Chandubhai S Patel Institute of Technology, Changa Campus, Changa, 3rd May 2013.
63. Expett Lectures on **“Symmetric Key Cryptography and Block Cipher Design – I & II”** at Shrimad Rajchandra Institute of Management and Computer Applications, Bardoli on 15th March and 6th April, 2013.
64. Expert Lectures on **“Introduction to Security Issues in Wireless Sensor Networks & Research Directions – I & II”**, 15th March and 6th April 2013, at Uka Tarsadia University, Bardoli.
65. An Expert Lecture on **“Introduction to Wireless Sensor Networks & Applications and How to write research papers”**, at Research Week, Gujarat Technological University, Ahmedabad, on 30th March 2013.
66. An Expert Lecture on **“Motivating Information Security and Symmetric Key Block Cipher Design”** at Chandubhai S Patel Institute of Technology, Changa Campus, Changa, 23rd March 2013.
67. An Expert Lecture **“Homomorphic Encryption Algorithms for Secure Data Aggregation in Wireless Sensor Networks”** at the Central University of Rajasthan, Kishangarh, Rajasthan, 18th Dec 2012.
68. An Expert Lecture on **“Security Issues in Wireless Sensor Networks & Algorithms for Secure Data Aggregation”** at the Department of Computer Science and Engineering, Shree G S I T S, Indore on 5th September 2012.
69. An Expert Lecture on **“Introduction to Security Issues in Wireless Sensor Networks & Research Directions”** at National Seminar on “Network and Cloud Security” organized by Faculty of Computer Applications Marwadi Education Foundation’s Group of Institutions, Rajkot on 21st July 2012
70. An Expert Lecture on **“Secure Data Aggregation in Wireless Sensor Networks”** at NCEVT 2012, organized by Gujarat Technological University and Parul Institute of Technology at Ahmedabad Management Associations Auditorium, Ahmedabad, on 14th April 2012.
71. An Expert Lecture on **“Interprocess Communication and Synchronization”** at Faculty of Engineering and Technology, Isroli, on 30th March 2012.
72. An Expert Lecture on **“Wireless Sensor Network: Characteristics and Applications”** in ATAST at Sri Ramkishna Institute of CE, on 27th Jan 2012.
73. An Expert Lecture on **“Wireless Sensor Networks: Introduction, Applications and Research Issues”** in Information Security Education and Awareness Project (Gol, DIT) sponsored National Seminar on Wireless Sensor Networks: Security Issues and Applications at Department of Computer Engineering, SVNIT, Surat, on 13th Jan 2011.
74. An Expert Lecture on **“Designing a Link Layer Security Architecture for Wireless Sensor Networks”** in Information Security Education and Awareness Project (Gol, DIT) sponsored National Seminar on Wireless Sensor Networks: Security Issues and Applications at Department of Computer Engineering, SVNIT, Surat, on 13th Jan 2011.

75. An Expert Lecture on **“Link Layer Security Architectures in Wireless Sensor Networks”** on 8th June 2010, at the 5-day AICTE STTP organized at U V Patel Institute of Technology, Kherva, Mahesana.
76. An Expert lecture on **“Greedy Algorithms”** in the AICTE sponsored STTP on ADA 2010: Analysis and Design of Algorithms during the period Jan 4-8, 2010, at Department of Computer Engineering, SVNIT, Surat
77. An Expert lecture on **“Analysis of Algorithms and Asymptotic Notations”** in the AICTE sponsored STTP on ADA 2010: Analysis and Design of Algorithms during the period Jan 4-8, 2010, at Department of Computer Engineering, SVNIT, Surat
78. An Expert lecture on **“Analysis and Design of Algorithms”** in the AICTE sponsored STTP on Data Structures during the period Dec 14-18, 2009, at Department of Computer Engineering, SVNIT, Surat
79. An Expert lecture on **“Privacy & Security Issues in Data Mining”** in the AICTE sponsored STTP on Data Mining during the period Dec 28 2009 – Jan 1, 2010, at Department of Applied Mathematics and Humanities, SVNIT, Surat
80. An Expert Lecture on **“E-Security Threats and Precautions for School Children and Parents”** at IIT Gandhinagar, Gandhinagar on October 1, 2009 jointly organized by SVNIT, Surat and CDAC Hyderabad, and IIT Gandhinagar, for the faculties of the Govt Engg. College Chandkheda, IIT Gandhinagar, and School Teachers of the schools in Ahmedabad/Gandhinagr, as part of the Information Security Education and Awareness Project (ISEAP) of Ministry of Communications and Information Technology, Gol, New Delhi
81. An Expert Lecture on **“Security Issues in Wireless Sensor Networks”** in National Seminar on Information Security at Shrimad Rajchandra Institute of Management and Computer Applications, Bardoli on 27th Sep, 2009.
82. An Expert Plenary lecture on **“Link Layer Security Architectures for Wireless Sensor Networks”** in **A Multi-disciplinary National Conference on Emerging Vistas of Technology in 21st Century** on Sep 11, 2009, at Department of Computer Engineering, Parul Institute of Engineering & Technology, Baroda.
83. An Educative Lecture on **“E-Security Threats and Precautions for School Children and Parents”** at Kendriya Mahavidyalaya, Surat on July 2009 jointly organized by SVNIT, Surat and CDAC Hyderabad, as part of the Information Security Education and Awareness Project (ISEAP) of Ministry of Communications and Information Technology, Gol, New Delhi
84. An Educative Lecture on **“E-Security Threats and Precautions for School Children and Parents”** at J H Ambani School, on July 2009 jointly organized by SVNIT, Surat and CDAC Hyderabad, as part of the Information Security Education and Awareness Project (ISEAP) of Ministry of Communications and Information Technology, Gol, New Delhi
85. Expert lecture on **“Public Key Cryptography”** in the AICTE sponsored STTP on Cyber Security during the period Jan 19-23, 2009 at Department of Computer Engineering, SVNIT, Surat
86. Expert lecture on **“Mathematical Foundations for Cryptography”**, in the AICTE sponsored STTP on Cyber Security during the period Jan 19-23, 2009 at Department of Computer Engineering, SVNIT, Surat
87. Invited Expert Lecture on **“Information Security and Recent Trends”** at ADIT, Karamsad, Anand on 6th Sept, 2008
88. Session Chair and Keynote Address at the National Conference on **“Emerging Trends in Computer Technology”** at Sarvajani College of Engineering & Technology, Surat during the period June 26-27, 2008.
89. Invited Lectures on **“Resources at the Central Computer Centre”** at the EQUATE, New Delhi and SVNIT organized Induction Training Program for Newly Recruited Faculties at SVNIT, on Jan 15, 18 and 22, 2008.
90. An Expert lecture on **“The Link Layer Security and the TinySec Framework for Wireless Sensor Networks”** at an AICTE/ISTE Sponsored short term course at Sarvajani College of Engineering & Technology, Surat on 26th Dec 2007.
91. An Expert lecture on **“Mathematical Foundations of Network Security & Cryptography”** at an AICTE/ISTE Sponsored short term course at Sarvajani College of Engineering & Technology, Surat on 24th Dec 2007.

92. An expert lecture on "**Security Attacks and Countermeasure Techniques in Wireless Sensor Networks**" at an AICTE/ISTE Sponsored short term course at S K Patel college of Engg & Tech, Visnagar on May 23, 2007.
93. An expert lecture on "**Mono-tier, Two-tier and Three Tier Application Models: The Impact of the Internet on Conventional Applications**" in the Distinguished Speakers Lecture Series at ACM Students Chapter, SVNIT, Surat, on February 15th, 2007
94. An Expert lecture on "**Security Attacks and Countermeasures in Embedded Systems**" at AICTE ISTE STTP on "Recent Trends in Embedded Systems" on 22nd December 2006 at, Sarvajani College of Engineering & Technology.
95. An Expert lecture on "**Security Issues in Wireless Sensor Networks**" at AICTE ISTE STTP on "Trends in Distributed Systems" on 29th June 2006 at Sarvajani College of Engineering & Technology.
96. An Expert lecture on "**Remote Procedure Calls**" at AICTE ISTE sponsored STTP on "Trends in Distributed Systems" on 27th June 2006 at Sarvajani College of Engineering & Technology.
97. An Expert lecture on "**Security issues in Wireless Sensor Networks**" at Gujarat Law Society, Ahmedabad and CSI Ahmedabad chapter sponsored National Conference at GLS Institute of Computer Applications, Ahmedabad; on April 1, 2006.
98. An Expert lecture on "**Using Internet in Research**" in the Entrepreneurship Development Cell, SVNIT organized one week summer school at SVNIT, Surat in July 04
99. An Expert lecture on "**Using Internet and Web Technology for fostering Research**" in MHRD, Gol sponsored ICSSR course for faculties of various Universities at Centre for Social Studies, South Gujarat University, Dec 2003
100. An Expert lecture on "**Using Internet in Research**" in MHRD, Gol sponsored ICSSR course for faculties of various Universities at Centre for Social Studies, South Gujarat University, Mar 2003
101. An Expert lecture on "**Use of the IT and the Web Technology in Teaching**" on 28th July 2000, in the Staff Induction Training Programme for Engineering Faculty - sponsored by AICTE, New Delhi and organized at SVNIT, Surat
102. An Expert lecture on "**Internet Technology and Applications**" in MHRD, Gol sponsored ICSSR course for faculties of various Universities at Centre for Social Studies, South Gujarat University, Dec 2000
103. An Expert lecture on "**Internet Technology and Applications**" in MHRD, Gol sponsored ICSSR course for faculties of various Universities at Centre for Social Studies, South Gujarat University, Dec 1999
104. Various expert lectures at MBA department at South Gujarat University in the courses on "**Information Systems Design & Implementation**" and "**Decision Support Systems**" during the period 1997-1999 (Four semesters)
105. Various expert lectures at MCA department at South Gujarat University in the courses on Data Base Management Systems, Principles of Programming Languages & Data Communications and Networks during the period 1993-95 (2 semesters), 1998-2001 (4 semesters).
106. Two expert lectures on "Internet Resources" and "The SMTP Protocol" in the AICTE STTP titled "Internet Unleashed" organized at the Department of Computer Engineering, SVRCET, during the period March 15-27, 1999.
107. An expert lecture on "**Computers and the Internet**" in the STTP organized by the ISTE Chapter of SVNIT at the Applied Mechanics Department, 1999.

Ph D Research Work Supervision :

Sr No	Name of the Scholar	Details
PhD Completed		
1.	Mehta Mayuri A	<p>A Novel Framework for Dynamic Load Balancing in Heterogeneous Distributed Systems using Hybrid Approach</p> <ul style="list-style-type: none"> Started: 20th July 2009 - Completed: 21st Aug 2014 Category: Part Time External Candidate RPC Members: Prof J Banerjee, Prof S N Pradhan (Nirma Univ), Prof N M Patel (BVM, Vallabh Vidyanagar), Prof M A Zaveri, Prof D C Jinwala. Pre-Synopsis Seminar Exam Committee: RPC plus Prof M M Gore, MNNIT, Allahabad. Referees: (1) Prof G Sivakumar, IIT, Bombay. (2) Prof A C Shah, Georgia Southwestern State University, Georgia, USA.
2.	Jariwala Vivaksha J.	<p>A Novel Framework for Integrity and Privacy Preserving Secure Data Aggregation in Wireless Sensor Networks</p> <ul style="list-style-type: none"> Started: 31st Dec 2009 - Completed: 22nd Sep 2014 Category: Part Time External Candidate RPC Members: Prof H K Raval, Prof Dhiren Patel, Prof Deven Shah (Mumbai Univ), Prof D C Jinwala. Pre-Synopsis Seminar Exam Committee: RPC plus Prof Manoj Singh Gaur, MNIT, Jaipur. Referees: (1) Prof S S Iyengar, Louisiana State University, Louisiana / Florida International University, Florida, USA. (2) Prof Mayank Dave, NIT, Kurukshetra
3.	Doshi Nishant	<p>Investigating Approaches for Ciphertext Policy Attribute Based Encryption</p> <ul style="list-style-type: none"> Started: 22th July 2010 - Completed: 26th Sep 2014 Full Time Institute Research Scholar RPC Members: Prof P L Patel, Prof Dhiren Patel, Prof Manik Lal Das (DA-IICT, Gandhinagar), Prof D C Jinwala. Pre-Synopsis Seminar Exam Committee: RPC plus Prof G Sivakumar, IIT, Bombay. Referees: (1) Prof Bimal Roy, ISI, Kolkata. (2) Prof Mazdak Zamani, Universiti Teknologi, Malaysia.
4.	Patel Sankita J.	<p>Investigating Approaches for Privacy Preservation in Distributed K-Means Clustering in Semi-honest and Malicious Model</p> <ul style="list-style-type: none"> Started: 31st Dec 2009 - Completed: 22nd Jun 2015 Category: PIS Part time Institute Faculty RPC Members: Prof J Banerjee, Prof M A Zaveri, Prof Sanjay Garg, (Nirma Univ, Ahmedabad), Prof D C Jinwala. Pre-Synopsis Seminar Exam Committee: RPC plus Prof Mayank Dave, NIT, Kurukshetra Referees: (1)
5.	Nanavati Nirali	<p>Investigating Privacy Preserving Approaches for Collaborative Association Rule Mining</p>

- Started: 22nd July 2010 - Completed: 22nd Jun 2015
 - Category: Full time Institute Research Scholar
 - RPC Members: Prof Upena Dalal, Prof Dhiren Patel, Prof Asim Banerjee, (DA-IICT, Gandhinagar), Prof D C Jinwala.
 - Pre-Synopsis Seminar Exam Committee: RPC plus Prof Sanjay Chaudhary, Ahmedabad Univ. Ahmedabad.
 - Referees: (1)
6. Phalanikar Rashmi R. A Framework for Conflict Analysis of User Requirements using Aspect Oriented Use Case Method and Graph Theory
- Started: 29th Dec 2009 - Completed: 30th July 2015
 - Category: Part Time External Candidate
 - RPC Members: Prof P L Patel, Prof Mukesh Zaveri, Prof Deven Shah (Mumbai Univ), Prof D C Jinwala.
 - Pre-Synopsis Seminar Exam Committee: RPC plus Prof Sanjay Chaudhary, Ahmedabad Univ. Ahmedabad.
 - Referees: (1) Prof S R Sathe, NIT, Nagpur (2) Prof Arvid Shah, USA
7. Keyur Parmar Investigating Approaches for Secure Data Aggregation in Wireless Sensor Networks
- Started: 5th Jan 2012 - Completed: 22nd April 2016
 - Category: Part Time Project Fellow
 - RPC Members: Prof P L Patel, Prof Dhiren Patel, Prof Manik Lal Das (DA-IICT, Gandhinagar), Prof D C Jinwala.
 - Pre-Synopsis Seminar Exam Committee: RPC plus Prof Manoj Gaur, Professor, MNIT, Jaipur.
 - Referees: (1) Prof (2) Prof Ravi Mukkamala,
8. Bhaladhare Pawan R. Investigating Anonymization based Clustering Approaches for Privacy Preserving Data Mining using Bio-inspired Optimization Techniques
- Started: 4th Jan 2010 - Completed: June 2016
 - Category: Part Time External Candidate
 - RPC Members: Prof H S Patil, Prof Mukesh Zaveri, Prof Sanjay Garg (Nirma Univ, Ahmedabad), Prof D C Jinwala.
 - Pre-Synopsis Seminar Exam Committee: RPC plus Prof V Somaiyajulu, NIT Warangal.
 - Referees: (1) Prof (2) Prof
9. Choksi Ami T. Investigating Approaches for Efficient Resource Discovery in the Semantic Web
- Started: 19th Jan 2009 - Completed: -
 - Category: Part Time External Candidate
 - RPC Members: Prof R A Christian, Prof Dhiren Patel, Prof S N Pradhan (Nirma Univ, Ahmedabad), Prof N M Patel (BVM, Vallabh Vidyanagar), Prof D C Jinwala.
 - Pre-Synopsis Seminar Exam Committee: RPC plus Prof Sanjay Chaudhary, Ahmedabad Univ. Ahmedabad.
 - Referees: (1) Prof (2) Prof .
10. Patel Hasmukh A Modeling, Analysis and Mitigation of Denial of Service Attacks
- Started: 23rd July 2010 - Completed: 9th Sept 2016

- Category: Part Time External Candidate
 - RPC Members: Prof P L Patel, Prof Dhiren Patel, Prof Manik Lal Das (DA-IICT, Gandhinagar), Prof D C Jinwala.
 - Pre-Synopsis Seminar Exam Committee: RPC plus Prof V Somaiyajulu, NIT Warangal.
 - Referees: (1) Prof Chittaranja Hota, BITS. (2) Prof Mazdak Zamani, Universiti Teknologi, Malaysia.
11. Surati Shivangi Keyur Investigating Approaches for Optimizing Multidimensional Query Search in Peer-to-peer Networks
- Started: 4th Jan 2010 - Completed: -
 - Category: Part Time External Candidate
 - Co-Supervisor: Prof Sanjay Garg, Nirma University, Ahmedabad.
 - RPC Members: Prof Upena Dalal, Prof Dhiren Patel, Prof Asim Banerjee, (DA-IICT, Gandhinagar), Prof D C Jinwala.
 - Pre-Synopsis Seminar Exam Committee: RPC plus Prof Sanjay Srivastava (DA-IICT, Gandhinagar)
 - Referees: (1) Prof Bansidhar Majhi, NIT, Rourkela.(2) Prof Aziza Abdal Manaf, Universiti Teknologi, Malaysia.

Undergoing Research Work

12. Kaushal Shah Key Management in Smart Grids
- Started: - Completed: -
 - Category: Full Time Institute Research Scholar
 - RPC Members:
 - Pre-Synopsis Seminar Exam Committee: -
13. Himanshu Patel Security and Privacy in Internet of Things
- Started: 4th Jan 2010 - Completed: -
 - Category: Full Time Institute Research Scholar.
 - RPC Members:
 - Pre-Synopsis Seminar Exam Committee: -
14. Dhruti Sharma Investigation issues in Attribute-based OR in Functional Encryption
- Started: - Completed: -
 - Category: Full time Scholar in QIP category
 - RPC Members:
 - Pre-Synopsis Seminar Exam Committee: -
15. Unnati S Shah Investigating Issues in Software Requirements Specifications
- Started: 4th Jan 2010 - Completed: -
 - Category: Part-time Research Scholar.
 - RPC Members:
 - Pre-Synopsis Seminar Exam Committee: -
16. Shivanshu Mehta Security and Privacy Issues in the Internet of Things
- Started: 4th Jan 2010 - Completed: -
 - Co-supervisor: Prof Dhiren Patel
 - Category: Full Time Institute Research Scholar, under Visvesvaraya scheme.
 - RPC Members:
 - Pre-Synopsis Seminar Exam Committee: -

17. Mukti Padhya

Security and Privacy Issues in the Internet of Things

- Started: 22nd Dec 2016 - Completed: -
- Category: Full Time Institute Research Scholar, under Visvesvaraya scheme..
- RPC Members:
- Pre-Synopsis Seminar Exam Committee: -

18. Anshuman Patel

Security and Privacy Issues in the Internet of Things

- Started: 4th Jan 2010 - Completed: -
- Category: Part time Research Scholar.
- RPC Members:
- Pre-Synopsis Seminar Exam Committee:

Ph D Theses Evaluated :

- 1.
2. Ms Shalvi Dave, *Network Access and Admission Restriction using Traffic Analysis and Vulnerability Detection*. Gujarat Technological University, Gandhinagar, Supervisor : Prof Bhushan Trivedi.
3. Ms Namita Tiwari, " A study of Proxy Signature and its Variants", Motilal Nehru National Institute of Technology, Allahabad, Supervisor : Prof Sahadeo Padhye
4. Mr Navaneet Kumar Ojha, " A Study of RSA type Cryptosystem and its Weak Keys ", Motilal Nehru National Institute of Technology, Allahabad, Supervisor : Prof Sahadeo Padhye
5. Mr Hemal Shah, "Investigations relating to Efficient Data Transmission and Reception in Adhoc Network", Ganpat University, Kherva. Supervisor : Prof Y. P. Kosta
6. Mr Kiran Amin, "Sequential Sequence Mining in Large Databases ",Ganpat University, Kherva. Supervisor : Prof J. S. Shah
7. Mr Joshi Gopalkrishna, "Optimisation of Data Quality Dimensions of Distributed and Co-Operative Information Systems", Jawaharlal Nehru Technological University, Hyderabad, Supervisor : Prof V Kamakshi Prasad
8. Mr Sudarshan Patel, "Investigation and Comparative Studies of Algorithms for Collection of Unreferred Memory in Real Time and Distributed System ", Sardar Patel University, Supervisor : Prof V K Thakar
9. Ms Shalvi Dave, "Network Access and Admission Restriction using Traffic Analysis and Vulnerability Detection ", Gujarat Technological University, Gandhinagar, Supervisor : Prof Bhushan Trivedi
10. Mr Premchand Ambhore, "Carapace for Internet Security", Sant Gadge Baba Amravati University, Supervisor: Prof B B Meshram
11. Mrs Seema Ladhe, "A Resource Efficient Common Protection Path Approach for MPLS-based Recovery ", Narsee Monjee Institute of Management Studies, Mumbai Supervisor : Prof Vijay T. Raisinghani
12. Ms Monica Gahlawat, "Virtual Machine Allocation In Federated Clouds" Gujarat Technological University, Gandhinagar, Supervisor : Prof Priyanka Sharma

M Tech Dissertation Supervision :

Sr No	Name	Title
2015-16		
1.	Hitendra M. Thakkar	Testing Automation of Intel Modems over PCIE And RPC Interfaces
2.	Rohit G. Waje	A Plugin Development and Job Creation Tool for Graphics Test Automation
3.	Ekta P. Patel	A Framework to debug Fabric Protocol
4.	Sunny S. Bodiwala	Optimizing Test Case Generation in Glass Box Testing using Bio-Inspired Algorithms
2014-15		
5.	PRatik PATil	OpRand: A MEMOP Randomization Scheme for Processor Validation using Random Instruction Tool.
6.	Jaijin Austin	Privacy Preserving Search using Fully Homomorphic Encryption
7.	Chandan Trivedi	Iterative Deconvolution Approach For High Resolution Satellite Imagery
8.	Avdhoot Raje	Development of PFW Web Application and its Testing using MBT
9.	Palash Baser	Improving the efficiency of Aviad and Kipnis Fully Homomorphic Encryption Scheme using Strassen's Algorithm
2013-14		
10.	Mukti Padhya	Investigating Applications of Homomorphic Encryption in Attribute-Based Encryption
11.	Himanshu Patel	Improving the Leach Protocol for Privacy Preservation in Secure Data Aggregation and a Code Attestation Scheme for Wireless Sensor Networks
12.	Komal Bharukha	Novel Approaches for Outlier Detection in Wireless Sensor Networks using Aggregate Message Authentication Code
13.	Nilesh Kakde	Investigating Data Privacy Issues in Software Testing
2012-13		
1	Ms Unnati Shah	Resolving Ambiguities in Natural Language Specifications to Generate UML Diagrams for Requirements Specifications
2	Mrs Greesma Sarath	Design And Analysis Of A New Message Authentication Scheme And Key Deployment Scheme Using Elliptic Curve Cryptography
3	Mr Parth Patel	A Secure Data Aggregation Protocol Based on Redundant Aggregate Calculation
4	Mrs Heta Desai	Secure Aggregation of Exact Sum Queries with Integrity Protection for Wireless Sensor Networks
2011-12		
1	Mr Vrundes Moroney	Web-Server Protection Profile and Robust Watermarking Using SVIP
2	Mrs Riddhi Mankad	Investigating Multi-Authority Attribute Based Encryption with Revocation

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| 3 | Mrs Asha Munjpara | Benchmarking Secure Data Aggregation Algorithms for Privacy Homomorphism in Wireless Sensor Networks |
| 4 | Mr Lalit M Pandya | Investigating Approaches for Secure Multiparty Computation in Wireless Sensor Networks |

2010-11

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| 14. | Mrs Dhruti Sharma | An Identity Based Secure Key Generation Protocol |
| 15. | Mrs Bhumika Patel | An Attribute Based Group Signature Scheme using Oblivious Signature-Based Envelope (OSBE) |
| 16. | Ms Rajul Shah | Investigation and Design of a Block Cipher for ISRO's IRNSS |
| 17. | Mr Yogesh Kapuriya | Investigating Automated Verification of Security Protocols |

2009-10

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| 18. | Mr Keyur Parmar | Novel Approaches for Verifiable Secret Sharing |
| 19. | Mrs Bhumika Patel | A Novel Approach for Secure Data Aggregation in Wireless Sensor Networks |
| 20. | Mrs Shweta Desai | Analytical Evaluation of the State-of-the-art Tools for Domain Centric Modularity using Novel Approaches |
| 21. | Ms Shradhha Dulera | Novel Approaches in Text Steganography |

2008-09

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| 22. | Mrs Vivaksha Jariwala | Investigating Galois Counter Mode for Link Layer Security Architectures for Wireless Sensor Networks |
| 23. | Mr Tanmay Shah | Code Attestation Techniques using Merkle Hash Trees |
| 24. | Mrs Jayna Kaneria | Formal Verification of Security Protocols using ProVerif |
| 25. | Ms Vrutti Shah | Detection of Code Clones |

2007-08

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| 26. | Mr Nilkanth Patel | Implementing and Evaluating Authenticated Encryption Modes for Link Layer Security Protocol for Wireless Sensor Networks |
| 27. | Mr Mihir Patel | Implementing Tiny Encryption Algorithm Ciphers for Link Layer Security Protocol for Wireless Sensor Networks |
| 28. | Mr Jaydeep Gheewala | Implementing the RC6 Cipher for Link Layer Security Protocol for Wireless Sensor Networks |
| 29. | Mrs Sankita Patel | Implementing and Evaluating the Replay Protection Algorithms for Link Layer Security |
| 30. | Mr Vipul Patel | Evaluating the Symmetric-key Block Ciphers on FreeRTOS for Embedded Systems |

M Tech (Research) Supervision :

Sr	Name	Title
No		

2008

1. Mrs Nital Mistry Securing AODV protocol against the Black-hole attacks in MANETS
2008
2. Mrs Nita Bosamiya Secure Time Synchronization in Wireless Sensor Networks
2009
3. Mrs Dhara Buch Denial of Service Attacks in Wireless Sensor Networks

Administrative and Other responsibilities, Innovative Practices etc:

Sr No	Name of the Assignment	Duration	Name of Responsibilities /services offered/shared:
1.	Dean (Research & Consultancy)	7 th Feb 2015 – 18 th July 2017	Functional Responsibilities towards assisting the Director of the institute in Research and Consultancy related matters viz. sponsored research projects, student internships, MoUs to be signed etc.
2.	Dean (Faculty Welfare)	26 th Dec 2013 – 10 th June 2014	Functional Responsibilities towards assisting the Director of the institute in Faculty related matters viz. faculty grievances, faculty recruitment etc.
3.	Head, Computer Engineering Department	3 rd Feb 2010 – 3 rd Feb 2012 20 th July 2014 – 10 th Dec 2014	Administrative responsibilities to be performed by head by default, ensuring and providing plausible environment for effective teaching, research, industrial liaison and consultancy.
4.	Professor InCharge, Central Computer Centre	18 th Oct 2002 – 2 nd Feb 2010 (7 years, 3 months)	All the administrative and technical responsibilities pertaining to Computing, Campus Networking and Internet related activities across the campus including effective implementation and maintenance of e-mail, Campus LAN, Institute Web Services, AMC services, ISP Load-balancing and Unified Threat Management Services (Configuration) , Virus/Spam Protection etc.
5.	Systems Manager	Sep 1998 - 17 th Oct 2002 (4 years 1 month)	Technical responsibilities pertaining to Computing, Campus Networking and Internet related activities across the campus.
6.	On the Expert Panel of the National Board of Accreditation, New Delhi	2009 onwards	For the accreditation of the UG/PG courses in Computer Engineering or Information Technology at Tier I as well as Tier II institutes.
7.	On the Faculty Selection panel	-	VNSG University, GTU, Nirma University, NIT Surathkal, NIT Manipur.....for selection of Lecturers/Assistant Professors at respective institute.
8.	Member, BoS OR on Advisory Panel	2011 onwards	Nirma University, Parul University, CHARUSET University
9.	Chairman, Departmental Board of UG and PG studies	Feb 3, 2010 – continuing (one month)	Academic work with respect to UG and PG teaching in the department
10.	Joint Coordinator, e-Election of Students Council, at SVNIT	2005	Design, testing and deployment of the e-Election software and conduction of the e-Elections.
11.	SVNIT Senate member	2003-continuing (eight years)	Default duties as a senate member
12.	Joint Systems Incharge and member AIEEE Admission SVNIT Conseling centre	2004 – 2007 (four years)	Provision of the Technical Support for the Online admission during the process, troubleshooting and overall joint supervision.
13.	Hostel Warden, Hostel 5 at SVREC, Surat	Dec 1994 – June 1995	Monitoring the Inmates at the hostel.

		(six months)	
14.	Member, South Gujarat University Board of Under Graduate Studies in Electronics & Computer Engineering	2001 – continuing (ten years)	Academic work with respect to UG and PG teaching in the Engineering Colleges under the South Gujarat University
15.	Member, Syllabus Revision Committee at M Sc (IT) at South Gujarat University	2006 – continuing (five years)	Syllabus Revision at the M Sc (IT)
16.	Expert Faculty and Advisor to MBA department, SGU	1997-2000 (four years)	Setting up of the MBA(MIS) course at the South Gujarat University and taking expert lectures
17.	On the Local Inquiry Committee	2000	Committee set up to investigate the feasibility of commencing the BCA course in various institutes under the South Gujarat University
18.	On the Examiner Panel at VNSGU, SPU, Vallabh Vidyanagar Amity Univ., etc.	1991 onwards	For paper-setting as well as conduction of exams
19.	Faculty Advisor & Founder Member, ACM Students' Chapter	2005-continuing (4 years, seven months)	Initiation of the students chapter, liasioning with the ACM, drafting rules and regulations, attracting memberships, advising students in organization of events. The ACM SVNIT students chapter won the BEST RECRUTIMENT AWARD in the world worth US \$ 500 in 2007.
20.	Faculty Incharge of National Level Technical event Mindbend 1995	1995	Helping students in the overall conduction of event and liasioning with the external invited speakers.
21.	Departmental Library Representative	1992 – 1995 (in ECED) 1997 – 2002 (in ECED) 18 th Oct 2002 – 2 nd Feb 2010 (in COED)	<ul style="list-style-type: none"> ▪ Recommendation of books/journals in the library. ▪ Pioneering support in configuration, installation, troubleshooting of the LIBSYS library management system of the institute ▪ Pioneering support for liasioning of the INDEST e-subscription related activities in the institute
22.	Departmental Representative on Institute Time-table committee	1997-2002	Preparation of the timetable for the students
23.	Pioneer-member, Pioneer Secretary and Currently Vice-President of the SVNIT Faculty Employee Cooperative Credit Society.	1997-continuing	Overseeing the smooth administration of the SVNIT Faculty Employee Cooperative Credit Society.

STTPs/Schools/Workshops/Conferences attended:

1. **Inaugural Asia ICS Cyber Security Conference 2017 (AICSC2017)**, Singapore, Singapore. - 27th and 28th March 2017.
2. **Machine Learning Conference 2017**, San Francisco, USA on June 2, 2017.
3. **ACM India Annual Event 2015 at BITPS Pilani**, Goa campus, Goa during the period Feb 5-6, 2015. (Two days)
4. **10th International Conference on Information Systems Security (ICISS) 2014**, at IDRBT, Hyderabad, from 15th-18th Dec 2015 (Four days)
5. **20th EUNICE Conference and Summer School** organized by EUNICE Network at Telecom Bretagne, Rennes, France during the period Sep 1-3, 2014. (Three days)*
6. **34th International Conference on Software Engineering, ICSE 2014** at HICC, Novotel Hotel, HiTec City, Hyderabad, during the period Jun 2-6, 2014” (Five Days)
7. **4th International Conference on Digital Information and Communication Technology and its Applications (DICTAP2014)** organized by the University of the Thai Chamber of Commerce | Bangkok, Thailand during the period May 6-8, 2014* (Two days)
8. **2nd Security and Privacy Symposium** at Indian Institute of Technology, Kanpur, during the period Feb 20-22, 2014. Three posters presented by the PhD scholars of myself – one out of which the First prize in the symposium (Three days).
9. **ACM India Annual event** on 15th Feb 2014. Expert Talks by Turing Award Winners viz. Vint Cerf, Shafi Goldwasser, Dave Patterson, Radia Perlman at Indian Institute of Technology, Delhi, New Delhi (**One day**).
10. **2nd International Conference on Security, Privacy, Applied Cryptography and Cryptography Engineering (SPACE 2013)** at the Indian Institute of Technology, Kharagpur from 20th – 23rd October , 2013 (Three days).
11. **“A Short Course on Wireless Sensor Networks: Theory and Challenges”**, at the Department of Electrical Engineering, IIT, Kanpur, during the period **July 22-24, 2013** (Three Days).
12. **“Security and Privacy Symposium”**, at IIT, Kanpur, during the period February **28-March 1, 2013** (Three Days).
13. **34th International Conference on Software Engineering, ICSE 2012”** at Kongresshaus Claridenstrasse 5, Zurich, Switzerland, during the **period Jun 5-7, 2012”** (Three Days)
14. **“3rd International Conference on Intelligent Systems, Modelling and Simulation, ISMS 2012”** at Hotel La Meridian, Kota Kinabalu, Sabah, Malaysia, during the period Feb 8-9, 2012. # (Three Days)
15. **7th International Conference on Information Systems Security (ICISS) 2010”**, at Jadavpur University, Kolkata, from 15th-18th Dec 2011 (Four days)
16. **“Indocrypt 2011 : The 12th International Conference on Cryptology in India”** during the period December 12 - 14, 2011, IMSc, Chennai, India (Three days)
17. **“ICIEIS 2011*: The International Conference on Informatics Engineering and Information Science”** - three days conference at UTM, Kuala Lumpur, Malaysia, Nov 14-16, 2011 (Three Days)
18. **“7th International Conference on Information Systems Security (ICISS) 2010”**, at Jadavpur University, Kolkata, from 15th-18th Dec 2011 (Four days)
19. **“Network Security – A Practical Perspective”**, a three-day short term course at ABV-Indian Institute of Information Technology & Management, Gwalior during the period September 5-7, 2011 (Three days)
20. **“SSPDC 2011”** a summer school on Parallel and Distributed Computing at JP University of Information Technology, Solan, Shimla – course faculty viz. Prof Yale Patt, Dr Manish Gupta and Prof Sukumar Ghosh during the period May 23-27, 2011 (Five days).
21. **“TECS Week 2011”** at Tata Research Design and Development Centre (TRDDC), TCS at Pune, from Jan 2-6, 2011 (Five days)

22. **"6th International Conference on Information Systems Security (ICISS) 2010"**, at DA-IICT, Gandhinagar, Ahmedabad, from 15th-18th Dec 2010* (Four days)
23. **Indocrypt 2010 : The 11th International Conference on Cryptology in India** during the period December 12 - 14, 2010, CRRAIMS, Hyderabad, India (Three days)
24. **45th National Annual Convention of Computer Society of India** at Mumbai, from Nov 25-27, 2010 (Three days).
25. Cryptology research Society of India and PSG College of Technology, Coimbatore organized **"10th National Workshop on Cryptology"** at PSG College of Technology, Coimbatore during the period Sep 2-4, 2010 (Three Days).*
26. Indo-US collaboration for Engineering Education organized course on **"Wireless Sensor Networks"** conducted by Dr Anish Arora, Ohio State University, USA, at Ansal Institute of Technology, Gurgaon, during the period July 12 to July 16, 2010 (Five Days).
27. Indo-US collaboration for Engineering Education organized course on **"Enterprise Software Engineering"** conducted by Dr Rajiv Ramnath, Ohio State University, USA, at Thiagrajar College of Engineering, Madurai during the period June 28 to July 2, 2010 (Five Days).
28. **International Conference on Automation and Control under the International Multi-Conference of Engineers and Computer Scientists, 2010**, Hong Kong. Hotel Royal Garden, IAENG, Hong Kong#. Also acted as Chairman of a session. (Three days)
29. Appraisal Meeting for the mid-term review of the **ISEAP project** at IIT, Guwahati, 19-20 Feb 2010 (Two days)
30. **Indocrypt 2009 : The 10th International Conference on Cryptology in India** during the period December 13 - 16, 2009, New Delhi, India (Three days)
31. **ISSRE 2009: The 20th International Conference on Software Systems Reliability** at Infosys Training Centre at Mysore, during the period Nov 16-17, 2009 (Two days)
32. **44th National Annual Convention of Computer Society of India** at Pune, from Oct 8-10, 2009 (Three days).
33. Indo-US collaboration for Engineering Education organized course on **"Analysis of Algorithms"** at Indo-US Engineering Faculty Leadership Institute in INFOSYS Training Centre, Mysore during the period June 29 to July 3, 2009 (Five Days).
34. Institute of Mathematical Sciences, Chennai and Cryptology research Society of India organized **"National Workshop on Teaching Cryptology at Undergraduate Level"** at ISI, Kolkata during the period June 15-19, 2009 (Five Days).
35. **"International Conference on Information Systems Security (ICISS) 2008"**, at Jawaharlal Nehru Technological University, Hyderabad, from 16th-20th Dec 2008* (Five days)
36. Cryptology Research Society of India and Indian Institute of Technology, Kharagpur jointly organized **"International Conference on Cryptology, INDOCRYPT 2009"** at Indian Institute of Technology, Kharagpur from 13th – 16th Dec , 2008 (Four days).
37. **Project Proposal Presentation** under the RESPOND programme at Space Applications Centre, Indian Space Research Organization, Ahmedabad, Nov 12, 2008.
38. International Council of Electronic Commerce Consultants organized intensive program on **"Ethical Hacking"** conducted by MIEL e-Security Ltd, Mumbai, at Pune during the period 16th-20th Sept, 2008 (Five days)
39. IBM India organized one-day conference on **"IBM Rational Software"** at New Delhi on 28th August 2008 (one day)
40. Cryptology Research Society of India and University of Hyderabad jointly organized National Workshop titled **"National Workshop on Cryptology 2008"** at University of Hyderabad, Hyderabad from 8th – 10th Aug, 2008 (Three days).
41. International Association of Engineers (IAENG) sponsored and organized World Congress on Engineering's **"International Conference on Wireless Networks"** at Imperial College, London, UK, from July 2-4 2008*

42. Department of Information Technology sponsored **"Workshop on Information Security Awareness"** at CDAC, Hyderabad on 9th June 2008
43. 1st India Software Engineering Conference on **"Researches in Software Engineering"** organized by IIT Delhi and IIIT, Hyderabad at International Institute of Information Technology, Hyderabad from 19th to 22nd Feb, 2008.
44. EQUATE, New Delhi and SVNIT organized training on **"Management Capacity Development Program for Future Managers"** at SVNIT, Surat from 28th Jan to 1st Feb 2008 (Five days)
45. Indian Nuclear Society and University of Applied Sciences, Germany sponsored International Conference on **"Sensors and Related Networks"** at VIT University, Vellore from 12th to 14th Dec 2007 (Three days)*
46. Cryptology Research Society of India and Amrita Vishwa Vidyapeetham, Coimbatore jointly organized National Workshop titled **"National Workshop on Cryptology 2007"** at Amrita Vishwa Vidyapeetham, Ettimadai, Coimbatore from 6th to 8th Sep, 2007 (Three days).
47. IBM and IACR sponsored workshop on **"Distributed Computing and Formal Verification"** at NIT, Karnataka, Surathkal during the period 23rd to 27th July, 2007 (Five days)
48. DST-JST Joint Workshop for **"Awareness of Funding Opportunities Under Bilateral Cooperation in the Field of ICT"** organized by CDAC, Noida at Noida on 16th July 2007 (One day)
49. 3rd International Conference on **"Mobile Ubiquitous and Pervasive Computing"** at VIT University, Vellore from 16th Dec to 19th Dec, 2006 (Four days)*
50. International Conference on **"Information Security and Computer Forensics"** at SRM University, Chennai from 4th Dec to 8th Dec 2006 (Five days)*
51. 41st National Annual Convention of Computer Society of India at Science City, Kolkata from 23rd Nov to 25th Nov 2006 (Three days)*
52. Training on **"Object oriented Analysis and Design using the UML with Fundamentals of Rational Rose"** conducted by Education Centers for IBM Software at SVNIT, Surat from 24th to 28th April 2006. (Five days)
53. National Conference on **"Intelligent Information Retrieval and Processing"** organized by SRIMCA and CSI, Surat from 29th April to 30th April 2006 (Two days)#
54. 1st International Conference on **"Information Systems Security"** at Centre for Distributed Computing, Jadavpur University, Kolkata from 19th to 21st Dec, 2005 (Three days)
55. National Workshop titled **"Workshop on Embedded Systems: Advances and Applications"** organized by Foundation for Innovation and Technology Transfer, IIT, Delhi from 21st Oct to 23rd Oct 2005 (Three days)
56. NPIU organized National Meeting on **"Campus Wide LAN"** at JNTU, Hyderabad on 2nd Sep, 2005 (One day)
57. NPIU organized National Workshop on **"Embedded Systems Workshop"** at IISc, Bangalore from 29th July to 30th July 2005 (Two days).
58. Faculty Training Programme on **"Education and Training in Cyber Security"** organized at TIFR, Mumbai from May 23, 2005 to June 17, 2005 (Four Weeks)
59. CEP course on **"INDEST-NCSI Workshop on Institutional Repositories"** organized at Indian Institute of Science (IISc), Bangalore from 27th July 2004 to 29th July 2004 (Three days)
60. Intel's Academic Initiative meeting at IIIT, Bangalore on 17th June 2003 (one day)
61. 2nd Workshop on **"Formal Methods in Safety Critical and Industrial Applications"** organized by CFDVS, IIT, Bombay from 2nd Dec to 5th Dec 2002 (Four days)
62. WG2.3/UNU-IIST/IARCS School organized school on **"Formal Software Engineering"** at TCS, Pune from 3rd Jan 2002 to 10th Jan 2002 (Eight days)
63. QIP Short term interaction period for research leading to Ph D at Department of Computer Science and Engineering, IIT, Delhi under Dr Sanjiva Prasad from 5th July to 24th July 2001 (Twenty days)

64. QIP Short term course on “**Artificial Intelligence and Experts Systems**” conducted at Department of Computer Science & Engineering, IIT, Bombay, Mumbai from 25th June 2001 to 29th June 2001. (Five days)
65. National Board of Accreditation, AICTE, New Delhi sponsored Experts Workshop of “**National Board of Accreditation**” at SVRCET, Surat from 21st April to 22nd April 2000 (Two days)
66. Workshop on “**Role of Information Technology in new millennium**” at Education Department, Govt of Gujarat, Gandhinagar on 7th Jan 2000 (one day)
67. NIIT organized National Conference on “**Cognitive Systems**” from 23rd to 25th Dec 1999 at Hamdard University, New Delhi (Three days)
68. CEP course on “**Unix System and Network Administration**” organized at Indian Institute of Technology, Bombay, Mumbai from 29th Mar 1999 to 1st Apr 1999. (Four days)
69. National Workshop titled “**All India INGRES user’s meet**” organized by MASTEK Limited at New Delhi from 9th Sep 1998 to 11th Sep 1998 (Three days)
70. International Institute of Software Technology (United Nations University, Macau) sponsored one week advanced course on “**Specification and Verification of Real-time Systems using Duration Calculus**” conducted by TIFR Faculty at SVREC, Surat 26th Jan 1998 to 31st Jan 1998 (Six days)
71. One week training on “**Specification and Verification of Real Time Systems using Duration Calculus**” under Dr Paritosh Pandya at TIFR, Mumbai from 15th Dec 1997 to 19th Dec 1997 (Five days)
72. Workshop on “**PC Based Control Applications**” at B.N. College of Engineering, Pusa from 2nd Oct 1997 to 3rd Oct 1997 (Two days)
73. National Workshop on “**Object Oriented Computing**” at Siddharth Academy of General & Tech. Education, Vijaywada from 22nd Feb 1995 to 23rd Feb 1995 (2 days)
74. Short Term course on “**Introduction to Artificial Intelligence Techniques**” at IIT, Kharagpur from 4th July to 8th July 1994 (Five days)
75. ISTE Summer School titled “**UNIX Environment**” at REC, Warangal from 11th May 1992 to 23rd June 1992 (Two weeks)
76. ISTE Summer School titled “**Paradigms of Programming Languages**” at REC, Warangal from 27th May 1991 to 8th June 1991 (Two weeks)

- presented papers and also chaired a student paper presentation session

* - attended the conference and presented a paper