

BIO DATA

Name: Dr. Shaila K

Designation: Professor

Department: Electronics and Communication Engineering



EDUCATIONAL QUALIFICATIONS

Sl. No	Course	Branch/ Specialization	Name of the University/Board	Name of the Institute	Year of Passing
1	Ph.D	Computer Science Engineering	Bangalore University	University Visvesvaraya College of Engineering	2013
2	M.E	Electronics and Communication Engineering	Bangalore University	University Visvesvaraya College of Engineering	2003
3	B.E	Electronics	Bangalore University	P.E.S Institute of Technology, Bangalore	1996

TEACHING

Sl. No.	From	To	Name of the Institution	Designation	Subjects Taught
1	18.05.2019	Till Date	Vivekananda Institute of Technology	Professor , Department of Electronics and Communication	IoT and Wireless Sensor Networks, Principles of Communication, Basic Electrical Engineering, Optical Fiber Communication, Computer Communication and Networks, Information Theory and Coding, Network Security, Logic Design, HDL, Probability and Random Process, Digital Image Processing, Basic Electronics, Transmission Lines and Waveguides, Microwave Devices and Circuits, Microwaves and Radar, Analog Communication, Embedded Systems, Satellite Communication, Wireless Communication.
2	21-01-2013	17.05.2019	Vivekananda Institute of Technology	Professor and Head of Department of Electronics and Communication	
3	01-06-2012	20-01-2013	Vivekananda Institute of Technology	Assistant Professor and Head of Department of Electronics and Communication	
4	13-08-2005	31-05-2012	Vivekananda Institute of Technology	Assistant Professor	
5	21-09-2003	12-08-2005	Vivekananda Institute of Technology	Lecturer	
6	10-12-1997	21-08-2003	P.E.S Institute Technology	Lecturer	

AWARDS AND RECOGNITIONS:

- Received Sir C. V. Raman Life Time Achievement Award for the achievements in Teaching, Research and Publications on 24th August 2019 in the 4th International Symposium on Education Excellence and Award Ceremony at Chennai.

- Received second prize for the project titled “CAN Based Automatic Drunk and Drive Detector” implemented by Sangam P Gowda, Shreekanth B N, S P Abhilash and Umesh H R under the guidance of Dr. Shaila K.
- Session chair for Fifth IEEE Women in Engineering (WIE) Conference on Electrical and Computer Engineering which is held between 15th & 16th November 2019 at the Sterlings Mac Hotel, Bengaluru.
- Received Best Teacher and Best Researcher for the contribution in the field of Teaching and Research at VKIT in 2018.
- Received Marquis Who’s Who 2018 Albert Nelson Marquis Lifetime Achievement Award.
- Listed in Marquis Who’s Who in the World Science and Engineering 2011 till date.
- BOE, Department of Electronics and Communication, BMSCE, 2018.
- Quality Auditor, Department of Electronics and Communication, BMSCE, 2018.
- Board of Examiner for UG (Computer Science and Engineering, Information Science Engineering) / PG (Computer Science and Engineering/ Computer Networking/ Information Technology/ Software Engineering/ Web Technology) in Bangalore University from 2008 till date.
- Reviewer for the International Conference on Computational Intelligence, Springer Publication organized by S J B Institute of Technology, Bengaluru, 2018.
- Reviewer for International Journal of Computer Science and Business Informatics from 2013 till date.
- Reviewer for International Journal of Electronics and Communications, Elsevier Publication, 2016.
- Reviewer for IEEE International Conference on Trends in Automation, Communication and Computing Technologies (ITACT 2015) organised by Acharya Institute of Technology, Bengaluru during 21 & 22 December 2015.
- Reviewer for IET Wireless Sensor Systems in 2015.
- Reviewer for Information Security Journal: A Global Perspective in 2015.
- Reviewer for 13th International Conference on Control, Automation, Robotics and Vision (ICARCV 2014) held from 10 - 12 December 2014 in Singapore.
- Reviewer for the IEEE International Advance Computing Conference to be held at B.M.S. College of Engineering, Bangalore on 12-13, June 2015 Listed in International Biographical Centre Woman of the Year 2014.
- Board of Studies for Ph.D (Computer Science and Engineering) in Bangalore University in 2014.
- One of the research paper selected in journal of CABELL’S DIRECTORIES- International Journal on Adhoc and Ubiquitous Computing, published by Inderscience Publication with H index:4 in 2013.

BEST PAPER AWARD:

- Under the guidance of Dr. Shaila K, Prof. & Head, Department of ECE, Mrs. Leelavathi G, Research Scholar received Most Outstanding Paper (Best Paper) Award for the paper titled “A Light Weight Implementation of ECC Cryptosystem on FPGA for nodes in Wireless Sensor Networks”, presented in the *Fifth International Conference on Engineering Technology, Science and Management, Institute of Electronics and Telecommunication Engineers, Bengaluru*, on 20th August 2017.
- Under the guidance of Dr. Shaila K, Prof. & Head, Department of ECE, Mrs. Leelavathi G, Research Scholar received Best Paper Award for the paper titled “Design and Implementation of Montgomery Multipliers in RSA Cryptography for Wireless Sensor Networks”, presented in the *International Conference on Smart Innovation, Systems and Technologies-2017, Jaipur, Rajasthan*, 14th-16th April 2017, Proceedings published by Springer.

BOOKS EDITED /AUTHORED

BOOKS PUBLISHED	EDITED
02	06

1. Edited “Abhivykathi” Newsletter vol. 1,no.1, March 2018 and vol. 1, no. 2, December 2018, vol. 2, no. 2, June 2019.
2. Authored “Secure Data Communication in Wireless Sensor Networks”, LAP LAMBERT Publishers, Germany, 2014.
3. Edited College Magazine VIVEKA 2014.
4. Edited the Proceedings of the National Conference on “Emerging Trends in Electronics, Communication and Computational Intelligence-ETEC 2013” on 20th – 22nd March 2013 at Vivekananda Institute of Technology.
5. Coauthored “Digital Circuits and Systems” by Tata McGraw Hill, New Delhi, 2011.
6. Edited the College Magazine VIVEKA 2007.

MHRD EVENTS

1. Applied for Institute Innovation Council for VKIT campus and has been approved by IIC, MHRD, New Delhi on 29th July 2019.
2. Conducted Essay Competition on “Creativity, Innovation and Technology” for students and “Encouraging Creativity and Innovation at VKIT Campus” for faculty on 11th October 2019.
3. Organized “Panel Discussion on Innovation” as part of Innovation Week organized by IIC, New Delhi.

4. Applied nine project to RISC2019 out of which seven projects were selected. Two batches received second place with a cash prize of Rs. 7,500/-. Two batch were recognized by the start-up industries to implement the same in real time.
5. Implement Mobile App at VKIT Campus by Innovation in Mobile App Development Ecosystem (*I-MADE*), Department of Telecommunications, Ministry of Communications and Information Technology, Government of India.

R & D Activities

- Guiding four Ph.D students:
 - a. Reshma S Gowda on “Energy Efficient Data Aggregation Techniques for Wireless Sensor Networks using IoT”
 - b. Sanjay K Nagendra on “Performance Evaluation of MAC Layer using Autonomic Network Architecture for Wireless Sensor Networks”
 - c. B S Shashikiran on “Image Steganography using Curvelet and Contourlet Transformation”
 - d. Manasa P on “QoS Aware Energy Efficient Routing Protocols in Wireless Sensor Networks”
- Mrs. Leelavathi G, Research Scholar, VKIT-VTU-RC completed the Final Viva Voce on 25th November 2019 research title “Reconfigurable Field Programmable Gate Array for Secure Public Key cryptography in Wireless Sensor Networks”.
- Mrs. Reshma S, Mr. Sanjay R Nagendra, Mrs. Manasa P and Mr. Shashikiran B S, Research Scholars, VKIT-VTU-RC have successfully completed the Comprehensive Viva-Voce.

International Journal

1. Shashikiran B S, Shaila K, Venugopal K R, “Hybrid Domain Steganography for Multiple Images using DWT-LSB Method”, International Journal of Innovative Technology and Exploring Engineering, vol. 9, no. 2, December 2019.
2. Manasa P, Shaila K, Venugopal K R, “WDMRR: Watchdog Monitored Ring Routing Protocol to Improve QoS in Wireless Sensor Networks”, International Journal of Science and Development Research, 4(8):148-158, August 2019.
3. Sanjay K Nagendra, Shaila K, Venugopal K R, “Congestion Control for an Ultra-wideband Dynamic Sensor Network using Autonomic based Learning”, International Journal of Computer Engineering and Technology (IJCET), 10(05):20-37, September 2019 under the guidance of Dr. Shaila K, Prof., Department of Electronics and Communication Engineering.
4. G Leelavathi, **K Shaila K**, K R Venugopal, “Reconfigurable hardware architecture of public key crypto processor for VANET and wireless sensor nodes” in Int. J. Vehicle Information and Communication System, Inderscience Publication, accepted.
5. Leelavathi G, Shaila K, Venugopal K R. Implementation of Double Encryption Using

Elgamal and Knapsack Algorithm on Fpga for Nodes in Wireless Sensor Networks, GARI International Journal of Multidisciplinary Research, Srilanka, ISBN 978-955-7153-00-1, 4(3):81-106, Article ID: IN/GARI/ICET/2018/106, July 2018.

6. Leelavathi G, **Shaila K**, Venugopal K R, “Design of RSA Processor and Field Arithmetic of ECC with Vedic Multipliers for Nodes in Wireless Sensor Networks” in IOSR Journal of VLSI and Signal Processing (IOSR-JVSP), 8(1/I): 01-15, e-ISSN: 2319 – 4200, p-ISSN No. : 2319 – 4197, Jan.-Feb. 2018.
7. Leelavathi G, **Shaila K**, Venugopal K R, “Maximizing the Efficiency using Montgomery Multipliers on FPGA in RSA Cryptography for Wireless Sensor Networks”, in International Journal on Future Revolution in Computer Science and Communication Engineering (IJFRSCE), 3(11):227-240, November 2017.
8. Leelavathi G, **Shaila K**, Venugopal K R, “A Light Weight Implementation of ECC Cryptosystem on FPGA for Nodes in Wireless Sensor Networks”, International Journal of Advance Research in Science and Engineering, 6(8):1183-1193, p-ISSN:2319-8355, o-ISSN:2319-8354, August 2017.
9. Leelavathi G, **Shaila K**, Venugopal K R, “Implementation of ECC on FPGA using Scalable Architecture with Equal Data and Key for WSN”, in International Journal in Engineering and Technology (IJET), 9(2):773-796, p-ISSN:2319-8613, o-ISSN:0975-4024, April-May 2017.
10. B M Thippeswamy, Reshma S, Sivasakthi P, **Shaila K**, Venugopal K R, S S Iyengar and L M Patnaik, “STEAR: Secure Trust-Aware Energy-Efficient Adaptive Routing in Wireless Sensor Networks”, In Journal of Advances in Computer Networks(JACN), ISSN : 1793-8244, vol. 3, no. 2, pp. 146-149, June 2015.
11. Kumaraswamy M, **Shaila K**, Tejaswi V, Venugopal K R, S S Iyengar and L M Patnaik, “Multihop Multi-Channel Distributed QoS Scheduling MAC Scheme for Wireless Sensor Networks”, IOSR Journal of Computer Engineering (IOSR-JCE), e-ISSN: 2278-0661, p-ISSN: 2278-8727, vol. 17, no. 2, pp.01-10, April 2015.
12. Lata B T, Vidya Rao, Sivasankari H, **Shaila K**, Venugopal K R, L M Patnaik, “SEAD: Source Encrypted Authentic Data for Wireless Sensor Networks”, International Journal of Engineering Research and Development (IJERD), e-ISSN : 2278-067X, p-ISSN : 2278-800X, vol. 11, no. 3, pp. 1-16, March 2015.
13. Bhavya S, **Shaila K**, Venugopal K R and L M Patnaik, “A Study on Issues and Challenges to Achieve Better QoS in Wireless Sensor Networks”, International Journal of Engineering Sciences and Research Technology (IJESRT), ISSN: 2277-9655, vol. 4, no. 3, pp. 308-317, March 2015.
14. Arunalatha J S, Rangaswamy Y, Tejaswi V, **Shaila K**, Raja K B, Dinesh Anvekar, Venugopal K R, S S Iyengar, L M Patnaik, “IRDO: Iris Recognition by fusion of DTCWT

- and OLBP,” International Journal of Engineering Research and Application, ISSN 2248-9622, vol. 5, no. 3, (Part -1), pp. 20-31, March 2015.
15. B S Shruthi, **Shaila K**, Venugopal K R and L M Patnaik, “The Paradigm of Major Issues and Challenges in Wireless Sensor Networks”, International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), ISSN:2277-128X, vol. 5, no. 3, pp. 601-609, March 2015.
 16. Lata B T, Raghavendra M, Sumukha T V, Suhas H, Tejaswi V, **Shaila K**, Venugopal K R, L M Patnaik, “RFSD: Restricted Flooding for Secure Data-aggregation in Wireless Sensor Networks”, International Journal of Computer Engineering and Applications (IJCEA), ISSN : 2321-3469, vol. 9, no. 2, pp. 1-15, February 2015.
 17. Arunalatha J S, Prashanth C R, Tejaswi V, **Shaila K**, Raja K B, Dinesh Anvekar, Venugopal K R, S S Iyengar, L M Patnaik, “OSPCV: Off-line Signature Verification using Principal Component Variances,” IOSR Journal of Computer Engineering (IOSR-JCE), e-ISSN 2278-0661, p-ISSN 2278-8727, vol. 17 no. 1, v. 5, pp. 08-23, January – February 2015.
 18. Arunalatha J S, Rramachandra A C, Tejaswi V, **Shaila K**, Raja K B, Dinesh Anvekar, Venugopal K R, S S Iyengar, L M Patnaik, “ FRWCT: Face Recognition using Wrapping Curvelet Transform,” International Journal of Computer Application, ISSN 2250-1797,vol. 5, no. 1, pp. 108-128, January – February 2015.
 19. Arunalatha J S, Suvarna C, Tejaswi V, **Shaila K**, Raja K B, Dinesh Anvekar, Venugopal K R, S S Iyengar, L M Patnaik, “FRVIWF: Face Recognition using Virtual Images based on Weighted Fusion,” International Journal of Information Processing (IJIP), ISSN 0973-8215, vol. 8, no. 4, pp. 98-114, December 2014.
 20. Lata B T, Raghavendra M, Tejaswi V, **Shaila K**, Venugopal K R, S S Iyengar and L M Patnaik, “SSEGR: Secure Single-Copy Energy Efficient Geographical Routing Algorithm in Wireless Sensor Networks”, In International Organisation of Scientific Research Journal of Computer Engineering (IOSR-JCE), ver. III, e-ISSN : 2278-0661, p-ISSN : 2278-8727, vol. 16, no. 6, pp. 37-49, November – December 2014.
 21. Sanjay K N, **Shaila K**, Venugopal K R, “Tactical Addressing in Autonomic Network Architecture for Wireless Sensor Networks: A New Paradigm”, IOSR Journal of Electronics and Communication Engineering (IOSR-JECE), e-ISSN: 2278-2834, p-ISSN: 2278-8735, vol. 9, no. 5, pp. 1-9, September-October 2014.
 22. Lata B T, Jansi P K R, **Shaila K**, D N Sujatha, Tejaswi V, Venugopal K R, and L M Patnaik, “Secure Routing Using Multiple Domain for Wireless Sensor Networks”, In International Journal of Computer Trends and Technology (IJCTT), e-ISSN : 2231-5381, p-ISSN : 2349-0829, vol. 13, no. 3, pp. 21-30, July 2014.

23. Manasa P, Reshma S, **Shaila K**, Venugopal K R, “QoS Aware Energy Efficient Routing in Wireless Sensor Networks”, International Journal of Advanced Research in Computer Science and Software Engineering, ISSN:2277-128X, vol. 4 no. 6, pp. 1384-1388, June 2014.
24. Kumaraswamy M, **Shaila K**, Tejaswi V, Venugopal K R, S S Iyengar and L M Patnaik, “QoS Group Based Optimal Retransmission Medium Access Protocol for Wireless Sensor Networks”, International Journal of Computer Networks & Communications (IJCNC), DOI: 10.5121/ijcnc.2014.6206, ISSN : 0974-9322, vol. 6, no. 2, pp. 61-77, March 2014.
25. **Shaila K**, Tejaswi V, S H Manjula, Venugopal K R, and L M Patnaik. “Probabilistic Model to avoid Attack on Implementation in a Homogeneous Wireless Sensor Networks”, In IOSR Journal of Computer Engineering (IOSR-JCE), e-ISSN:2278-0661, p-ISSN:2278-8727, vol. 16 no. 1, pp. 51-66, February 2014.
26. B M Thippeswamy, Reshma S, **Shaila K**, Venugopal K R, S S Iyengar, L M Patnaik “EDOCR: Energy Density ON-Demand Cluster Routing in Wireless Sensor Networks” International Journal of Computer Networks & Communications (IJCNC) e-ISSN : 0974-9322, p-ISSN : 0975-2293, vol. 6, no. 1, pp. 223 – 240, January 2014.
27. B M Thippeswamy, Raghavendra M, Reshma S, **Shaila K**, Venugopal K R, S S Iyengar, L M Patnaik “MCDR: Mitigating Congestion using Distance based Routing in Wireless Sensor Networks” IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661, p-ISSN: 2278-8727, ver. V, vol. 16, no. 1, pp. 17-29, January 2014.
28. B M Thippeswamy, Reshma S, **Shaila K**, Tejaswi V, Venugopal K R, S S Iyengar, L M,Patnaik, EEHCR: Energy Efficient Hierarchical Cluster Routing in Wireless Sensor Networks, In International Journal of Information Processing, ISSN : 0973-8215, vol. 8, no. 1, pp. 92-106, 2014.
29. Leelavathi G, Prakash S, **Shaila K**, Venugopal K R, L M Patnaik, “Design and Implementation of Advanced Encryption Algorithm with FPGA and ASIC”, International Journal of Research in Engineering and Advanced Technology, ISSN : 2320-8791, vol. 1, no. 3, pp. 1-8, July 2013.
30. Leelavathi G, **Shaila K**, Venugopal K R, L M Patnaik, “Design Issues on Software Aspects and Simulation Tools for Wireless Sensor Networks”, International Journal of Network Security and its Application (IJNSA),e-ISSN: 0974-9330, p-ISSN : 0975-230, vol. 5, no. 2, pp. 47-64, March 2013.
31. **Shaila K**, Manjula S H, Venugopal K R, L M Patnaik, “Mobile Node authentication using Key distribution Scheme in Wireless Sensor Networks”, International Journal on Adhoc and Ubiquitous Computing, Inderscience Publications, **impact factor-0.8, H-index-4**, e-ISSN : 1743-8233, p-ISSN : 1743-8225, vol. 12, no. 1, pp. 34-45, January 2013.

32. **Shaila K**, Vineet G H, Prashanth C R, Tejaswi V, Venugopal K R and L M Patnaik. "LKSR: Link Strength Keymatch Secure Routing in Heterogeneous Wireless Sensor Networks". International Journal of Computational Systems Engineering (IJCSysE), Inderscience Publication, e-ISSN: 2046-3405, p-ISSN: 2046-3391, vol. 1, no. 4, pp. 238-256, 2013.
33. Lata B T, Jansi P K R, **Shaila K**, D N Sujatha, Venugopal K R, and L M Patnaik, "Multiple Domain Secure Routing for Wireless Sensor Networks", In International Journal of Information Processing, ISSN : 0973-8215, vol. 7, no. 2, pp. 59-68, 2013.
34. **Shaila K**, Sajitha M, Tejaswi V, Manjula S H, Venugopal K R and L M Patnaik. "SEEDI: Secure and Energy Efficient Approach for Detection of an Intruder in Homogeneous Wireless Sensor Networks", International Journal of Computer Theory and Engineering (IJCTE), Singapore, p-ISSN: 1793-8201, vol. 4 , no. 6, pp. 871-875, December 2012.
35. **Shaila K**, S H Manjula, Venugopal K R, L M Patnaik, "Anonymity Trust Management Scheme (ATMS) for Clustered Wireless Sensor Networks", International Journal of Computational Intelligence Research (IJCIR), Research India Publications, New Delhi, p-ISSN: 0973-1873, e-ISSN: 0974-1259, vol. 8, no. 2, pp. 133-153, November 2012.
36. K C Srikantaiah, P L Srikanth, V Tejaswi, **K Shaila**, K R Venugopal and L M Patnaik, "Ranking Search Engine Result Pages Based on Trust Worthiness of Web Sites", International Journal of Computer Science Issues, corr abs/1209.5244, ISSN : 1694-0814, vol. 9, no. 4(2), pp. 318-327, July 2012.
37. Kumaraswamy M, **Shaila K**, Tejaswi V, Venugopal K R, S S Iyengar and L M Patnaik, "CBH-MAC Protocol for Multihop QoS in Wireless Sensor Networks", International Journal of Computer Science and Network Security (IJCNSNS), ISSN : 1738-7906, vol. 12, no. 7, pp. 11-20, July 2012.
38. **Shaila K**, Sivasankari H, S H Manjula, Venugopal K R, L M Patnaik, "ATMC: Anonymity and Trust Management Scheme Applied to Clustered Wireless Sensor Networks", In International Journal of Network Security (IJNS), ACEEE, USA, p-ISSN: 2152-5064, e-ISSN:2152-5072, vol. 3, no. 4, pp. 18-23, 2012.
39. Kumaraswamy M, **Shaila K**, Tejaswi V, Venugopal K R, S S Iyengar and L M Patnaik, "Cross-Layer Design RCH-MAC Protocol for Multihop QoS in Wireless Sensor Networks", International Journal of Information Processing, ISSN 0973-8215, vol. 6, no. 2, pp. 1-10, 2012.
40. Sivasankari H, **Shaila K**, Venugopal K R and L M Patnaik," Multiple Dynamic Sinks to Maximize the Lifetime and Conservation of Energy in Wireless sensor Networks", International Journal of Computer Theory and Engineering, ISSN : 1793-8201, vol. 4, no. 1, pp. 67-75, 2012.

41. H Sivasankari, **Shaila K**, Venugopal K R and L M Patnaik, "Cluster based Algorithm for Energy Conservation and Lifetime Maximization in Wireless Sensor Networks" International Journal of Computer Science and Engineering(IJCSE), ISSN 0975-3397, vol. 03, no. 10, pp. 31-40, October 2011.
42. **Shaila K**, S H Manjula, Thriveni J, Venugopal K R and L M Patnaik "Resilience Against Node Capture Attack using Asymmetric Matrices in Key Predistribution Scheme in Wireless Sensor Networks", International Journal of Computer Science and Engineering, Publisher:Engineering Journals, Chennai, India, p-ISSN 2229-5631, e-ISSN 0975-3397, vol. 3, no. 10, pp. 2241-2254, October 2011.
43. **Shaila K**, Nalini L, Tejaswi V, Thriveni J, Venugopal K R and L M Patnaik. "Secure QoS Aware Data Fusion to Prevent Node Misbehavior in Wireless Sensor Networks". International Journal of Computer Science and Network Security (IJCSNS), Seoul, Korea, p-ISSN 1738-7906, vol. 11, no. 3, pp. 31-40, March 2011.
44. Srikantaiah K C, Srikanth P L, Tejaswi V, **Shaila K**, Venugopal K R, L M Patnaik, "Ranking SERP of a Specialty Search Engine based on Probability of Correctness of Facts" International Journal of Information Processing, ISSN : 0973-8215, vol. 5, no. 3, pp. 1-13, 2011.
45. **Shaila K**, Vidya Yeri, Arjun A V, K R Venugopal and L M Patnaik, "Validation Time and Dynamic Speed to Enhance Secure Communication Rate in Wireless Sensor Networks", In International Journal of Computer Theory and Engineering (IJCTE), ISSN : 1793-8201, vol. 3, no. 1, pp. 104-110, 2011.
46. H Sivasankari, S Ishaq Ali, Vallabh M, **Shaila K**, Venugopal K R, L M Patnaik "K-means Fusion Steiner Tree Algorithm for Energy Conservation in Wireless Sensor Networks", International journal on Information Processing, ISSN : 0973-8215, vol. 4, no. 3, pp. 34-48, October 2010.
47. H Sivasankari, S Ishaq Ali, Vallabh M, **Shaila K**, Venugopal K R and L M Patnaik, "Energy Conservation using K- means Fusion Steiner Tree(KFST) Algorithm for Wireless Sensor Networks" International Journal on Information Processing, ISSN : 0973-8215, vol. 4 , no. 3, pp. 1-15, October 2010.
48. **Shaila K**, Vineet G H, Prashanth C R, Arjun A V, Shiva Prakash T, Tejaswi V, S H Manjula, Venugopal K R and L M Patnaik, "ASR : Adaptive Secure Routing in Heterogeneous Wireless Sensor Networks", In International Journal on Information Processing, ISSN : 0973-8215, vol 4, no. 2, pp. 88-100, January 2010.
49. **Shaila K**, Thriveni J, Vidya Yeri, Neelavathi H N, Arjun A V, Nalini L, Venugopal K R, L M Patnaik, "Preventing node Misbehavior by Secure QoS- Aware Data Fusion in Distributed

Wireless Sensor Networks”, In International Journal of Information Processing, ISSN : 0973-8215, vol 2, no. 4, pp. 65-79, January 2009.

50. S H Manjula, Nithin B K, Sarvajith M, **Shaila K**, L Nalini, Venugopal K R, L M Patnaik, “Optimal Scheduling for Maximizing the Network Lifetime of Wireless Sensor Networks”, International Journal on Information Processing, ISSN : 0973-8215, vol. 3, no. 3, pp. 1-14, 2009.
51. Thriveni J, Vikas M, **Shaila K**, Venugopal K R, L M Patnaik, “Reliable Delivery with Varying Data Rate in Ad Hoc Wireless Networks”, International Journal of Information Processing, ISSN : 0973-8215, vol. 2, no. 2. pp. 12-23, April 2008.
52. S H Manjula, C N Abhilash, **Shaila K**, Venugopal K R, L M Patnaik, “Performance Analysis of Routing Protocol using Mobility Models in Wireless Sensor Networks”, International Journal of Information Processing, ISSN : 0973-8215, vol 2, no. 1, pp. 62-78, 2008.
53. S H Manjula, Arjun A V, Shilpa K R A, Shwetha N, Swetha N A, **Shaila K**, L Nalini, Venugopal K R, L M Patnaik, “Evaluating the Lifetime of a Coverage and Connectivity Guaranteed Heterogeneous Wireless Sensor Network”, International Journal of Information Processing, ISSN : 0973-8215, vol. 2, no. 2, pp. 65-80, 2008.

International Conference

1. Manasa P, Shaila K, Venugopal K R, “Maximizing the Network Lifetime Using Supervisory Node in Wireless Sensor Networks”, presented in 16th IEEE India Council International Conference INDICON 2019, Marwada University, Rajkot, Gujarat, India 13th-15th December 2019.
2. Sanjay K Nagendra, Shaila K, Venugopal K R, “LA-ANA based Data Transmission in UWB Tx-Rx”, presented in 16th IEEE India Council International Conference INDICON 2019, Marwadi University, Rajkot, Gujarat, India, 13th-15th December 2019.
3. Leelavathi G, **Shaila K**, Venugopal K R “Data and Image Encryption with Embedding a Character to GF(2m) Elliptic Curve Point using Public Key Cryptography for Nodes in Wireless Sensor Networks”, In EAI International Conference on Big Data Innovation for Sustainable Cognitive Computing (BDCC 2018), December 13-15, 2018, Coimbatore, India.
4. Leelavathi G, **Shaila K**, Venugopal K R, “Elliptic Curve Crypto Processor on FPGA using Montgomery Multiplication with Vedic and Encoded Multiplier over GF(2m) for Nodes in Wireless Sensor Networks”, In 13th International IEEE Conference on Industrial and Information System (ICIIS 2018), December 1-2, 2018, Indian Institute of Technology, Roopar, India.
5. Leelavathi G, **Shaila K**, Venugopal K R, “Implementation of Public Key Crypto-Processor with Probabilistic Encryption on FPGA for Nodes in Wireless Sensor Networks”, In 9th

International Conference on Computing, Communication and Networking Technologies (ICCCNT), e-ISBN:978-1-5386-4430-0, p-ISBN:978-1-5386-4431-7, pp.109-113, Indian Institute of Science, Bengaluru, July 2018.

6. Leelavathi G, **Shaila K**, Venugopal K R, (**Best Paper Award**), “Implementation of Double Encryption Using Elliptical Curve Cryptography on FPGA for Nodes in Wireless Sensor Networks” in the Proc. of the Fourth International Conference on Engineering and Technology organised by Global Academic Research Institute, on 18th May 2018 at Galle Face Hotel, Colombo, Sri Lanka.
7. Leelavathi G, **Shaila K**, Venugopal K R, “Implementation of Elliptic Curve Cryptography using Elgamal Method with Double Scaling and Matrix Mapping for Nodes in Wireless Sensor Networks” in the Proc. of the International Conference on Frontiers in Engineering, Applied Sciences and Technology (FEAST-18) at National Institute of Technology, Tiruchirappalli, Tamil Nadu, India on 27th -28th April 2018.
8. Leelavathi G, **Shaila K**, Venugopal K R, “A Light Weight Implementation of ECC Cryptosystem on FPGA for Nodes in Wireless Sensor Networks”, (**Most Outstanding Paper Award**) Fifth International Conference on Engineering Technology, Science and Management, Institute of Electronics and Telecommunication Engineers, Bengaluru, ISBN: 978-93-86171-60-3, pp. 255-265, 20th August 2017.
9. Leelavathi G, **Shaila K**, Venugopal K R, “Design and Implementation of Montgomery Multipliers in RSA Cryptography for Wireless Sensor Networks”, First International Conference on Smart Systems, Innovations and Computing, Singapore, vol. 79, Springer Publication, Rajasthan, p-ISBN: 978-981-10-5827-1, o-ISBN: 978-10-588-8, pp. 565-574, 16th April 2017.
10. Leelavathi G, **Shaila K**, Venugopal K R, “RSA Processor Design with Vedic Multiplier for Nodes in Wireless Sensor Networks”, in the IEEE International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET 2017), Chennai, IEEE Publication, pp. 1254-1257, 22nd March 2017.
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12. S Raghavendra, C M Geeta, **K Shaila**, Rajkumar Buyya, K R Venugopal, S S Iyengar, and L M Patnaik. MSSS: Most Significant Single-keyword Search over Encrypted Cloud Data. in Proceedings of the 6th Annual International Conference on ICT: BigData, Cloud and Security, Singapore 2015.

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20. B M Thippeswamy, Reshma S, Raghavendra M, **Shaila K**, Dinesh Anvekar, Venugopal K R, S S Iyengar, L M Patnaik, "DSARMP: Data Sinking using Angle Routing with Multiple Partition in WSNs" In the Proceedings of International Conference on Advances in Computer

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24. Kumaraswamy M, **Shaila K**, Tejaswi V, Venugopal K R, S S Iyengar and L M Patnaik. "QoS Driven Distributed Multi-Channel Scheduling MAC Protocol for Multihop WSNs", 5th IEEE International Conference on Computer and Communication Technology (ICCCT-2014), MNNIT, Allahabad, ISBN: 978-1-4799-6757-5, pp. 175-180, September 26-28, 2014.
25. B M Thippeswamy, Reshma S, Sivasakthi P, Tejaswi V, **Shaila K**, Venugopal K R , L M Patnaik, "STEAR: Secure Trust-aware Energy-efficient Adaptive Routing in Wireless Sensor Networks", The 2014 7th International Conference on Advanced Computer Theory and Engineering (ICACTE 2014), Singapore, August 8-10, 2014.
26. Kumaraswamy M, **Shaila K**, Tejaswi V, Venugopal K R, L M Patnaik, S S Iyengar. "QMSR: QoS Multihop Sensor Routing Scheme Cross-Layer Design for Mobile Wireless Sensor Networks", 7th International conference on Advanced Computer Theory and Engineering (ICACTE-2014), Singapore, ISBN: 978-0-7918-6004-5, August 8-10, 2014.
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28. Lata B T, Tejaswi V, **Shaila K**, Raghavendra M, Venugopal K R, S S Iyengar, L M Patnaik, "SCG : Secure Communication using Geographical Routing in Wireless Sensor Networks", 8th International Conference on Communication Networks, Bangalore, ISBN : 978-93-5107-253-9, pp. 55-62, July 25-27, 2014.

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31. Kumaraswamy M, **Shaila K**, Tejaswi V, Venugopal K R, S S Iyengar and L M Patnaik, "Efficient Retransmission QoS-Aware MAC Scheme in Wireless Sensor Networks", In Proceedings of 5th International Conference on Networks and Communications (NetCom2013), Chennai, INDIA, ISSN : 1876-1100, pp. 31-42, December 27-29, 2013.
32. Lata B T, Jansi P K R, **Shaila K**, Sivasankari H, Sujatha D N, Venugopal K R, L M Patnaik, "Secure Multiple Domain Routing for Wireless Sensor Networks", Proceedings of Seventh International Conference on Communication Networks (ICCN-2013), Elsevier Publications, ISBN : 978-93-5107-104-4, pp. 40-49, August 9-11, 2013.
33. Kumaraswamy M., **Shaila K**, H Sivasankari, Tejaswi V., K. R. Venugopal, and L M Patnaik," RCH-MAC Protocol for Multihop QoS in Wireless Sensor Networks." In the Proceedings of International Conference on Information Processing (ICIP-2012), Bangalore, ISSN: 1865-0929, pp. 18–27, August 10-12, 2012.
34. **Shaila K**, Sivasankari H, S H Manjula, Venugopal K R, S S Iyengar and L M Patnaik." ACTM : Anonymity Cluster based Trust Management in Wireless Sensor Networks" In Proceedings of the Third International Conference on Advances in Communication, Network and Computing (CNC 2012), Springer LNICST, Chennai, INDIA, e-ISBN : 978-3-642-35615-5, p-ISBN : 978-3-642-35614-8, pp. 75-80, February 24-25, 2012.
35. H Sivasankari, Vallabh M, **Shaila K**, Venugopal K R and L M Patnaik "Multiple Mobile Synchronised Sinks(MMSS) for Energy Efficiency and Lifetime Maximization in Wireless Sensor Networks" Proceedings of 13th ICEIS, Beijing, CHINA, e-ISBN: 978-989-8425-56-0, pp. 76 – 85, June 8-11, 2011.
36. **Shaila K**, Vineet G H, Prashanth C R, Tejaswi V, Venugopal K R and L M Patnaik. KCSR: Keymatches Constrained Secure Routing in Heterogeneous Wireless Sensor Networks. In Proceedings of 13th International Conference on Enterprise Information Systems (ICEIS-2011), Beijing, China, ISBN:978-989-8425-56-0, pp.13-17, June 8-11, 2011.
37. H Sivasankari , Leelavathi R, **Shaila K**, Venugopal K R, S S Iyengar and L M Patnaik," Dynamic Cooperative Routing(DCR) in Wireless Sensor Networks" In Proceedings of the Third International Conference on Advances in Communication, Network and Computing

(CNC 2012), Springer LNICST, Chennai, INDIA, e-ISBN : 978-3-642-35615-5, p-ISBN : 978-3-642-35614-8, pp. 87-92, February 24-25, 2011.

38. **Shaila K**, Sajita M, Tejaswi V, S H Manjula, Venugopal K R and L M Patnaik, "SEEDI: Secure and Energy Efficient Approach for Detection of an Intruder in Homogeneous Wireless Sensor Networks", in Proceedings of The 2010 International Conference on Intelligent Network and Computing (ICINC 2010), published by IEEE, Kuala Lumpur, Malaysia, p-ISBN : 978-1-4244-8270-2, pp. 279-283, November 26-28, 2010.
39. **Shaila K**, Vidya Yeri, Arjun A V, Venugopal K R, L M Patnaik, "Adaptive Mobility and Availability of Mobile Node for Efficient Secret Key Distribution in Wireless Sensor Networks", 2nd International Conference on Machine Learning and Computation (ICMLC – 2010), IEEE Computer Society, Bangalore, e-ISBN : 978-1-4244-6007-6, p-ISBN : 978-1-4244-6006-9, pp. 137-141, February 9-10, 2010.
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41. **Shaila K**, S H Manjula, Aruna R, Anupama, Venugopal K R, L M Patnaik, "Resilience Key Predistribution Scheme using Asymmetric Matrices for Wireless Sensor Networks", In IEEE Proceedings of International Advance Computing Conference (IACC' 09), Patiala, Punjab, e-ISBN : 978-1-4244-2928-8, p-ISBN : 978-1-4244-2927-1, pp. 833-840, March 6-7, 2009.
42. S H Manjula, Prabhavathi M, Arjun A V, **Shaila K**, L Nalini, Venugopal K R, L M Patnaik, "Multi-Hop Routing for Multistationed Wireless Sensor Networks", In IEEE Proceedings of International Computing Conference (IACC09), Patiala, Punjab, e-ISBN : 978-1-4244-2928-8, p-ISBN : 978-1-4244-2927-1, pp. 806-811, March 6-7 2009.
43. S H Manjula, Prabhavathi M, Arjun A V, **Shaila K**, L Nalini, Venugopal K R, L M Patnaik, "Multi-Hop Path Routing for Multiple Base Stationed Sensor Network using MTC Algorithm", In IEEE Proceedings of ADCOM (2008), Chennai, e-ISBN : 978-1-4244-2963-9, p-ISBN : 978-1-4244-2962-2, pp. 225-233, December 14-17, 2008.
44. Thriveni J, Vishwanath K R, Jayashree V, Neelima S, Parinitha B M, Sneha K, **Shaila K**, Venugopal K R and L M Patnaik, "Optimized Multicast Routing for Improved Survivability of Mobile Ad Hoc Networks", ICCEE, Phuket Island, Thailand, ISBN : 978-0-7695-3504-3, pp. 465-469, December 20-22, 2008.
45. S H Manjula, Krupa R, Saba K, Lalithamma N, Kavitha L, **Shaila K**, L Nalini, Venugopal K R, L M Patnaik, "Network Lifetime Maximizing Gradient Algorithm for Dead End in Wireless Sensor Networks", In the Proceedings of IEEE 10th International Conference -

- TENCON (2008), Hyderabad India, ISBN : 978-1-4244-2408-5, pp. 1-6, November 18-21, 2008.
46. S H Manjula, Bindu Reddy E, **Shaila K**, L Nalini, Venugopal K R, L M Patnaik, “Base-station Controlled Clustering Scheme in Wireless Sensor Networks”, IFIP Wireless Days Conference, Dubai, e-ISBN : 978-1-4244-2829-8, p-ISBN : 978-1-4244-2828-1, pp. 1-5, November 24-27, 2008.
 47. S H Manjula, Krupa R, Saba K, Lalithamma N, Kavitha L, **Shaila K**, L Nalini, Venugopal K R, L M Patnaik, “GRADE: Energy Efficient Gradient Algorithm for Dead End in Wireless Sensor Networks”, In Proceedings of International Conference on Information Processing (ICIP), Bangalore, ISBN : 978-81-906942-4-7, pp. 544-556, August 8-10, 2008.
 48. **Shaila K**, Thriveni J, Vidya Yeri, Neelavathi H N, Arjun A V, Nalini L, Venugopal K R and L M Patnaik, “Secure QoS-Aware Data Fusion in Wireless Sensor Networks”, In Proceedings of International Conference on Information Processing (ICIP 2008), Bangalore, ISBN : 978-81-906942-4-7, pp. 511-517, August 8-10, 2008.
 49. Thriveni J, Vishwanath K R, Jayashree V, Neelima S, Parinitha B M, Sneha K, **Shaila K**, Venugopal K R and L M Patnaik, “Energy Efficient Multicasting for Optimizing Network Lifetime in Wireless Ad Hoc Networks”, In Proceedings of International Conference on Information Processing, Bangalore(ICIP 2008), ISBN : 978-81-906942-4-7, pp. 502-510, August 8-10, 2008.
 50. S H Manjula, Arjun A V, Shilpa K R A, Shwetha N, Swetha N A, **Shaila K**, L Nalini, Venugopal K R, L M Patnaik, “Maximizing Lifetime of a Coverage and Connectivity Guaranteed Heterogeneous Wireless Sensor Networks”, In Proceedings of International Conference on Communication, Convergence, and Broadband Networking(ICCBN), Bangalore India, July 17-19, 2008.
 51. Thriveni J, Vikas M, **Shaila K**, Venugopal K R, L M Patnaik, “Drop Reduction with Controlled Flow Rate for Reliable Delivery in MANET”, In IEEE Proceedings of International Conference SPIT-IEEE Colloquium 2007- 08, Mumbai, ISSN : 0973-8215, , pp. 180-186, February 4-5, 2008.

National

1. Srujana Vanditha, Sumithra N, Thejashwini N R, Yashodha S, **Shaila K**, “Identification of Drainage Pipeline Blockage Based on Multi-Article Fusion” in National Conference on Wireless Communication and Networking at Acharya Institute of Technology on 23rd May 2018.

Book Chapters:

1. G. Leelavathi, K. Shaila, K. R. Venugopal , “Design and Implementation of Montgomery Multipliers in RSA Cryptography for Wireless Sensor Networks”, in Proceedings of First International Conference on Smart System, Innovations and Computing, Part of the Smart Innovation, Systems and Technologies book series (SIST, volume 79), pp. 565-574, Springer SSIC 2017, Jaipur, India, 2017.
2. Kumarswamy M., Shaila K, H Sivasankari, Tejaswi V., K. R. Venugopal, and L M Patnaik, *RCH-MAC Protocol for Multihop QoS in Wireless Sensor Networks*, pp. 18 – 27, CCIS 292, Springer Verlag, ICIP, August 2012.
3. Shaila K, Sivasankari H, S H Manjula, Venugopal K R, S S Iyengar and L M Patnaik. ACTM : Anonymity Cluster based Trust Management in Wireless Sensor Networks. *V.V. Das and J. Stephen (Eds.): CNC 2012, Springer LNICST 108, Institute for Computer Sciences, Social Informatics and Telecommunications Engineering*, pp. 75-80, Feb 2012.
4. H Sivsankari, Leelavathi R, Shaila K, Venugopal K R, S S Iyengar and L M Patnaik, *Dynamic Cooperative Routing(DCR) in Wireless Sensor Networks*, In Proceedings of the Third International Conference on Advances in Communication, Network and Computing (CNC 2012), Springer LNICST, Chennai, INDIA, February, 2012.
5. Srikantaiah K C, Srikanth P L, Tejaswi V, Shaila K, Venugopal K R, Iyengar S S and L M Patnaik, “*PCF-Engine, A Fact Based Search Engine in Computer Networks and Intelligent Computing*”, Proceedings of Fifth International Conference on Information Processing, Springer Verlag, pp. 155 – 160, Bangalore, August 2011.

EXPERT LECTURES DELIVERED

- About “MHRD Innovation Cell: A Government of India Initiative” on 4th October 2019.
- A talk on “Bridging the Industry Academic gap in Higher Education” as a Proud VKITian on 14th September 2019.
- A talk on “Water is Life Don’t Hit Your Life” under the theme “Utility of Water and its Sustainability for Future” as a Proud VKITian on 13th October 2018.
- Teaching using Revised Bloom’s Taxonomy : A Structured Learning Process” at Vivekananda Institute of Technology, Bengaluru on 20th June 2018.
- A talk on “National Technology Day” on the eve of National Technology Day celebration on 11th May 2018 in Department of Electronics and Communication, Vivekananda Institute of Technology.
- “Performance Review Guidelines for Self-Appraisal” in the Faculty Development Program on “A Step Towards Accrediation (A Series Lectures and Evaluation Process)” was organized by

Department of ECE and Department of MBA, at Vivekananda Institute of Technology, Bengaluru on 10th July 2015.

- “Wireless Sensor Networks and Research Issues” at RRCE on 12th April 2013.

AREAS OF INTEREST

Sl.no	Theory Subjects of Interest to Teach	Areas of Research Interest
1	Cloud Computing	Wireless Sensor Networks
2	Internet of Things	Image Processing
3	Wireless Sensor Networks	
4	Mobile Communication	
5	Digital Image Processing	
6	Satellite Communication	
7	Computer Communication and Networks	
8	Network Security	
9	Information Theory and Coding	
10	Analog Communication/Principles of Communication	
11	Fundamentals of HDL	
12	Digital Circuits and Systems	
13	Basic Electronics	

PROGRAMS/SEMINARS/CONFERENCES ATTENDED

- 1 Attended the Higher Education Technology Conference, Bengaluru. at Hotel Taj, Bengaluru on 29th August 2019.
- 2 Attended Five Days Faculty Development Program on “Implementation of Outcome based Education in Higher Education Institutions” from 8th to 12th July-2019 conducted by SIT, Tumkuru.
- 3 A one day “Academia Meet” conducted by Electronics Sector Skills Council of India at RG Royal Conventional Hall on 19th August 2017.
- 4 Chaired the session in the National Conference "VLSI, Communication and Signal Processing (NCVCS-2017)" on 16th - 17th May 2017 at Rajarajeshwari College of Engineering.
- 5 Was one of the judge in the Second National Student Project Exhibition EDSIM-2017 a Make in India program.
- 6 Attended Industry-Institute Interaction Program on Cloud Computing at Hotel Palladium on 18th November 2016.
- 7 Attended and chaired a session in the Twelfth International Multi-conference on Information Processing organized by The Society of Information Processing at Hotel Capitol on 19th – 21st August 2016.

- 8 Project Exhibition EDSIM 2016 organized by Alpha College of Engineering in association with All India Council for Technical Education on 14th May 2016.
- 9 Six Sigma Workshop for Engineering Faculty at Alpha College of Engineering on 17th and 19th April 2016.
- 10 The 11th International Conference on Information Processing” 21st – 23rd August 2015 at Hotel Capitol.
- 11 Chaired the session in the International on Communication Networking and Information Processing at AMCE on 29th April 2015.
- 12 Tenth International Multi-Conference on Information Processing at Hotel Capitol on 25th - 27th July 2014.
- 13 Chaired the session in the International Conference on Communication and Computing- 2014, 12th -14th June 2014, Vijaya Vittala Institute of Technology, Bangalore.
- 14 National Workshop on “How to use A-VIEW” at B M S College of Engineering on 23rd Nov 2013.
- 15 Session Chair for Seventh International Conference on Communication Networks 9th – 11th Aug 2013.
- 16 A Seminar on Information Processing at WIE-BMSCE, Bangalore on 24th October 2012.
- 17 Mission 10X Faculty Empowerment Workshop for five days conducted by Wipro Technologies at East West Institute of Technology, June 2011.
- 18 A Three day workshop on “Research Methodology and its Applications” at KSIT in 2011.
- 19 IEEE Conference on “Information Processing” organized by U.V.C.E in 2007.
- 20 International Conference on “ Information , Sensor & Image Processing “ organized by IEEE in 2006.
- 21 Technology Trends in mobile Computing and Communication, organized by BNMIT & IIIT – B in April 2004.
- 22 Trends in “Board Band Communication” organized by RVCE & ISTE in Sept.2004.
- 23 Digital Signal Processing and Application conducted at U.V.C.E by Bangalore University in 2002.
- 24 Emerging Applications in DSP & Embedded Area at IISc in 2002.
- 25 Entrepreneur Development Program in 1995 at PESIT.
- 26 Computer Graphics, Visualization & Computer Networks at PESIT in 1995.
- 27 Microprocessors & Applications course at PESIT in 1993.

PERSONAL INFORMATION

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