



Dayananda Sagar Academy of Technology & Management

(Autonomous Institute under VTU)

Affiliated to **VTU**
Approved by **AICTE**
Accredited by **NAAC** with **A+** Grade 4
Programs Accredited by **NBA**
(CSE, ISE, ECE, ME)

Faculty Name	Dr. Sumithra Devi K A	
Academic Designation	Dean (Academics) & HOD	
Educational Qualification	Ph.D., M.E., B.E.	
Experience in Teaching & Industry	40 years	
Date of Joining	26/06/2025	
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Educational Details

- Ph.D., Computer Science Engineering (Specialization: VLSI Partitioning CAD Tool), Avinashilingam Deemed Central University for Women, Coimbatore — 2009
- Master of Engineering, Electronics, University Visvesvaraya College of Engineering, Bangalore University — 1990
- Bachelor of Engineering, Electronics and Communication, Malnad College of Engineering, Hassan, Mysuru University — 1985

Professional Experience

A distinguished academician and institutional leader with 40 years of experience in engineering education, spanning teaching, research supervision, and academic administration. Currently Dean (Academics) and Head, Department of Information Science & Engineering at Dayananda Sagar Academy of Technology and Management since November 2017, where she has led 6 UG programs to NBA Tier-II accreditation. Previously served as Professor & Principal at GSSS Institute of Engineering and Technology for Women, Mysore, and held Professor, Director and Head positions in the Department of Master of Computer Applications at R.V. College of Engineering, Bangalore, where her academic career began as Lecturer in 1986 and where she helped establish both the CSE and MCA departments.

- Dean (Academics) & Head, Dept. of Information Science & Engineering — Dayananda Sagar Academy of Technology and Management, Bangalore (9th November 2017 – Present); Achieved NBA Tier-II accreditation for 6 UG Engineering programs
- Professor & Principal — GSSS Institute of Engineering and Technology for Women, Mysore (15th January 2015 – 8th November 2017); Achieved NBA Tier-II accreditation for 5 UG Engineering programs
- Professor & Director, Dept. of Master of Computer Applications — R.V. College of Engineering, Bangalore (1st September 2009 – 5th January 2015); Grew intake from 60 to 120; established VTU-affiliated research centre
- Professor & Head, Dept. of Master of Computer Applications — R.V. College of Engineering, Bangalore (21st October 2001 – 1st September 2009); Founding faculty of the MCA Department
- Assistant Professor, Dept. of Computer Science & Engineering — R.V. College of Engineering, Bangalore (1st November 1996 – 21st October 2001)
- Lecturer, Dept. of Computer Science & Engineering — R.V. College of Engineering, Bangalore (1st November 1986 – 1st November 1996); Founding faculty of the first CSE Dept. batch
- Member Evaluator, CSE Board — National Board of Accreditation, New Delhi (Ongoing)

Publications

Citation Indices of the Research Publications:

Citations - 930;

h-index- 18;

i-10index- 20

1. “Hybrid Model Analysis for Calorie Prediction using Ensemble Learning Techniques: XGBoost and Random Forest”, International Journal of Environmental Sciences, ISSN: 2229-7359, Vol. 11, NO. 6, 2025
2. “Data Augmentation using GANs for Image Classifications”, Global Scientific Journal: Volume 13, Issue 5, May 2025 ISSN 2320-9186
3. “Human Action Recognition (HAR) and Speech Recognition (SR) using Data Science”, Indian Journal of Computer Science and Technology, <https://www.doi.org/10.59256/indjct.20250402026>, Volume 4, Issue2 (May-August 2025), PP: 206-209.
4. “Smart HealthCare Methods and Applications”, 2025 IJCSPUB | Volume 15, Issue 2 May 2025 | ISSN: 2250-1770
5. K.S Rajeshwari and Dr. Sumithra Devi K A, “Fault Tolerance and Energy Efficient Multi Hop Clustering with Dual Base Stations in Large Scale Wireless Sensor Network” SN Computer Science. (2023) 4:309.
6. K.S Rajeshwari and Dr. Sumithra Devi K A, “Energy Efficient and Node Density Based Dual Base Station Deployment for Large Scale Wireless Sensor Network”, ISSN:2147-6799, IJISAE, 2023, 11(2), 627–634, Vol. 11, Issue 2, 2023.
7. Thilagavathy, R. & Dr. Sumithradevi, K A (2023). “ROS-Enabled Collaborative Navigation and Manipulation with Heterogeneous Robots” SN Computer Science. 4. DOI:10.1007/s42979-023-01857-3(Q2 Journal Publication).
8. Thilagavathy, R. & Dr. Sumithradevi, K A, “Energy Efficient Routing Protocols for Mobile Robots: A Review”, Saudi Journal of Engineering and Technology (SJEAT), Volume 8, Issue 7, pp 163-174, 2023. (Peer Reviewed Journal Publication).
9. Thilagavathy, R. & Dr. Sumithradevi, K A, “ROS Based SLAM for a Gazebo Simulated Fetch Robot in Unknown Indoor Environment”, Indian Journal of Science & Technology (Under Review).
10. K.S Rajeshwari and Dr. Sumithra Devi K A, “A Survey on Various Fault Tolerance Deployment Mechanisms in Wireless Sensor Networks”, ISSN: 2320-5407 Int. J. Adv. Res. 8(12), 679-683, Vol.8 issue Dec 2020.
11. “COVID-19 X-ray Image Retrieval Using Deep Convolutional Neural Networks ” American Journal of Engineering Research (AJER), ISSN No. 2320-0847, vol 9, no 7, July 2020.
12. “Feature Extraction from Ensemble of Deep CNN Model for Image Retrieval Application” Book titled Data Intelligence and Cognitive Informatics. Algorithms for Intelligent Systems. Springer, Singapore. http://doi-org-443.webvpn.fjmu.edu.cn/10.1007/978-981-15-8530-2_57
13. “Cross layer QoS guaranteed fault Tolerance for Data Transmission in Mobile Wireless Sensor Networks” Wireless Personal Communications-An International Journal, ISSN No. 0929-6212, May 2020.
14. “A Prediction of Different Technologies for the development of unstructured big data”

International Journal of Innovative technologies and Exploring Engineering (IJITEE), ISSN No. 2278-3075, vol 9, no 3, January 2020.

15. "Spyware Detection and Prevention using Deep learning AI for user Applications" International Journal of Recent Technology and Engineering, ISSN No. 2277-3878, vol 7, no 5, January 2019.
16. "Content Based Image Retrieval using Learnt features from Convolution Neural Networks" International Journal of Computer Sciences and Engineering, ISSN No. 2347-2693, vol 6, no 10, October 2018.
17. "Content Based Image Retrieval using Color Histogram Area Co-efficient" International Journal of Advance Scientific Research and Engineering Trends, ISSN No. 2456-0774, vol 3, no 10, October 2018.
18. Thilagavathy R, Dr. Sumithradevi K A, "A Study on Multirobot Communication", 5th International Conference on Emerging Trends in Engineering, Technology, Science and Management", IETE, Ganganagar, Bengaluru, Karnataka, India, 20th August 2017. (Google Scholar Indexed).
19. "An Enhanced RESISTPRO Based Approach for Secure Data Sharing in Bluetooth Networks, International conference on "Advanced Computing and Communication Systems – ICACCS, January 2017.
20. "Lifespan Enhancement of Wireless Sensor Network (WSN) through Residual Energy Balancing and Uniform Distribution of Cluster Nodes." Indian Journal of Science and Technology 9.43 (November 2016).
21. "Hybrid Partitioning Algorithm for Area Minimization in Circuits", Procedia Computer Science, Volume 48, 2015, Pages 692-698, ISSN 1877-0509, <http://dx.doi.org/10.1016/j.procs.2015.04.203>
22. "Augmenting Bluetooth Security by Behavior Based User Categorization", Elsevier Procedia Computer Science Journal, Volume 57, 2015, Pp. no. 1424–1431, Available online at Science Direct, DoI: 10.1016/j.procs.2015.07.462
23. "Performance of Hybrid Genetic Algorithm on Digital Circuit Area Minimization", International Journal Of Innovative Research In Computer And Communication Engineering (IJRCCE), Volume 2, Issue 12, (December 2014), ISSN (Online): 2320 – 980, pp.7526-7529
24. "Effective Architecture for Dynamic Bidirectional Resource Mapping Web Service in Cloud", International Journal of Innovative Research in Advanced Engineering (IJIRAE) Volume 1 Issue 8 (September 2014) ISSN: 2349-2163.
25. "Prevention of Data From the Data Leakage in Cloud Computing", International Journal of Recent Advance in Science and Engineering (IJRACE), a wing of (ISRACE) First International Conference on Recent Advances in Science and Engineering on 30th October 2014 at Bengaluru ISBN:978-93-83083-89-3.
26. "A Lightweight paradigm to security in blue tooth networks" International Journal of Advanced Research in Computer Engineering and Technology (IJARCET), Volume 3 Issue4, April 2014.
27. "Effective Architecture for Dynamic Bidirectional Resource Mapping web serive in Cloud (DBRM)", International Journal Innovative Research in Advanced Engineering (IJIRAE) volume 1, Issue 8 (Sept2014).
28. "Implementing J48 algorithm on Audio Conference Call Detail Records to predict high usage customers" IFRSA International Journal Of Electronics Circuits And Systems |Vol 3|issue 2|June

29. "Implementation of PKI in Government Business", International Journal of Computer Science & Information Technology, 2014, ISSN 0975–9646
30. "Analysis of E-Governance Projects across India", CIIT International Journal of Software Engineering, 2013, ISSN 0974 – 9748, pp. 27-32.
31. "Categorization of E-Governance Projects on the basis of Standards followed", CIIT International Journal of Science & Technology, 2012, ISSN 0974 – 9748, pp. 86-91
32. "Performance Evaluation of Crypt Analytical Approaches in Bluetooth Networks", International Journal of Application or Innovation in Engineering & Management (IJAIEEM), Volume 2, Issue 7, July 2013, ISSN, 2319 - 4847, Journal Impact factor: 2.379
33. "Secure Transmission of an Image using Partial Encryption based Algorithm", International Journal of Computer Applications, 63(16): pp 33-36. Published by Foundation of Computer Science, New York, USA. (Impact factor:0.835)
34. "Study on Cryptanalysis of the Tiny Encryption Algorithm", Published at International Journal of Innovative Technology and Exploring Engineering, Vol. 2, Issue-3, pp 88-91. (Impact Factor: 1.0)
35. "Comparative Study On Data Encryption Standard Using Differential Cryptanalysis And Linear Cryptanalysis", Published at International Journal of Advances in Engineering & Technology, Vol. 6, Issue-1, pp 158- 164. (Impact Factor:0.86)
36. "Overview of Linear Cryptanalysis on S-DES and Block Ciphers using Hill Cipher Method", Published at International Journal of Computer Applications, New York, USA, Vol. 63, No.21, pp 47-52. (Impact factor:0.835))
37. "Image Quality Assessment for Partial Encryption Using Modified Cyclic Bit Manipulation", International Journal of Innovative Technology and Exploring Engineering, Volume-2, Issue-3, pp 84-87. (Impact Factor: 1.0)
38. "Secure Partial Image Encryption Scheme Using Scan Based Algorithm", International journal of advances in Engineering & Technology, Volume 6, Issue 1, pp 264-273. (Impact Factor:0.86)
39. "Simulation Of Virtual Synchrony In A Distributed Environment", International Journal of Emerging Technology & Advanced Engineering (ISSN 2250-2459, ISO 9001:2008 Certified Journal), Volume 3, Special Issue 1, January 2013, pp.421-426
40. "Distance based Cluster head section in sensor networks for efficient energy utilization", International Journal of Advanced Research in Engineering and Technology (IJARET), Volume 4, Issue 1, ISSN: 0976- 6480(print), ISSN: 0976-6499(Online), Jan-Feb 2013, pp. 52-58, Journal Impact factor: 2.707
41. "Analysis of E-Governance Projects across India", CiiT International Journal of Software Engineering and Technology, Print: ISSN 0974 – 9748 & Online: ISSN 0974 – 9632, January 2013.
42. "An Efficient and Optimal Clustering Algorithm for Mobile Adhoc Networks" International Journal of Computer Science and Management Research, Vol 1, Issue 2, September 2012, ISSN 2278-733X, pp 100- 103
43. "Ramification of low energy security enhancement aspects in Bluetooth", UACEE International Journal of Computer Science and its applications, ISSN: 2250-3765, Vol 2, Issue 2, August 2012, pp 135-137
44. "Security Issues in Cloud Computing", World Journal of Science & Technology, Vol 2, No 5, May

2012, Online ISSN: 2231-2587, pp111 – 113

45. “Beamforming in Wireless Sensor Networks”, International Journal of Scientific & Engineering Research (ISSN 2229-5518), Vol.3, Issue 4, April 2012.
46. “Extracting Web Information for CLIR” International Journal of Modeling and Optimization, Vol 1, No.5, December 2011, pp 410-413
47. “Multilingual information retrieval based on knowledge Creation techniques”, International Journal of Computer Science, Engineering and information technology (IJCSEIT), Vol.1, No.4, October 2011, pp. 27-35
48. “An Ownership Based Non-Intrusive Biometric authentication using data mining algorithm”, International Journal Futuristic Technology in Science, Engineering and Management, 2011
49. “Classification Algorithms in Achieving Partitioning Optimization for VLSI Applications”, International Journal of Computer Theory and Engineering, Vol.2, No.6, December, 2010, 1793-8201, pp 916 – 918
50. “Finding waste disposal area using binary operations on geographical images in GIS object-oriented database”, Journal of Science, Technology and Management, Vol. 03, No. 30, Oct – Dec 2010 pp 17 – 20.
51. “Different approaches of Partitioning Techniques tested for optimization in VLSI design”, International Journal of Engineering research and industrial applications – ASCENT PUBLICATIONS, Vol. 2, No. 1, 2009, ISSN 09742 – 1518, pp. 335 – 346.
52. “Accomplishment of Circuit Partitioning Using VHDL and Clustering Pertaining to VLSI Design”, International Journal of Computer Science and Network Security, ISSN 1738-7906, September 2008, pp. 405-408
53. “Optimizing Circuit Partitioning by Implementing Data Mining and VHDL tools pertaining VLSI design”, International Journal of Intelligent electronic system, Vol. 2, July 2008, ISSN-0973-9238, pp11 – 17.
54. “Comparative study of evolutionary model and clustering methods in circuit partitioning pertaining to VLSI design”, International Journal of Applied Mathematics and Computer Sciences, Enfomatika, Quarterly Volume 4 number 2, ISSN 1305-5313, April 2007, pp 544-547.
55. “An Evolutionary Time- Series Model for Partitioning a Circuit Pertaining to VLSI Design Using Neuro Memetic Algorithm”, Journal of ACTA Press publication, 2006, ISBN 0-88986-60-8, pp. 325 – 329.

Conference Attended

1. "Deep Learning for Image-Based Disease Detection in Smart Healthcare", 2nd Internal Conference on Intelligent Systems and Computational Networks (**ICISCN-2026**) in association with IEEE Bangalore Section during 24-25 April 2026 at Lingaraj Appa Engineering College, Bidar, Karnataka. (IEEE Xplore)
2. "Edge-Based Face Recognition for Secure Access Control Systems", 2nd Internal Conference on Intelligent Systems and Computational Networks (**ICISCN-2026**) in association with IEEE Bangalore Section during 24-25 April 2026 at Lingaraj Appa Engineering College, Bidar, Karnataka. (IEEE Xplore)
3. "Human Activity Recognition using Multi-Sensor Data Fusion with Dual-Stream Attention-Based Temporal Transformer", 3rd International Conference on Integrated Intelligence and Communication Syatems (**ICIICS-2026**) organised by Sharnbasva University, Kalaburagi. (IEEE Xplore)
4. "Multi-Resolution Edge- Adaptive Fault Detection Network for Image-based Fault Identification in Industrial Internet of Things Systems", 3rd International Conference on Wireless Communication and Internet of Everything (**ICWCIE-2026**) organised by Sharnbasva University, Kalaburagi. (IEEE Xplore)
5. "Energy-Aware Multi-Task Learning Deep Neural Network for Scalable LoRa WAN-Based IoT Systems", 3rd International Conference on Wireless Communication and Internet of Everything (**ICWCIE-2026**) organised by Sharnbasva University, Kalaburagi. (IEEE Xplore)
6. "Intelligent Cooperative Spectrum and Dynamic Sharing for Cognitive Radio Enabled 5G IoT Networks", 3rd International Conference on Integrated Intelligence and Communication Syatems (**ICIICS-2026**) organised by Sharnbasva University, Kalaburagi. (IEEE Xplore)
7. "Tasmanian Devil Integrated Greylag Goose Optimisation for Secure and Energy Efficient Clustering and Routing in Wireless Sensor Network", 3rd International Conference on Integrated Intelligence and Communication Systems (**ICIICS-2026**) organised by Sharnbasva University, Kalaburagi. (IEEE Xplore)
8. "An Ideal Machine Learning Method that uses URL Information to Identify Phishing Attempts", AICTE Sponsored International Conference **IC-AISMART-2025** in association with JSSATEB-STEP, 11th – 12th December, 2025 at JSS Academy of Technical Education, Bengaluru. (Scopus Indexed)
9. "Digital Twin with Reinforcement Learning-Based Emergency Response System for Smart Healthcare Networks", 2nd International Conference on Software Systems and Information Technology (**SSITCON**), 2025. (Scopus Indexed)
10. Design, Development & Performance Analysis of Mcrostrip Array Antenna for Fifth-Generation Application. "**ICICS 2025**"-The International Conference on Information and Communication Systems, indexed in Scopus and EI
11. "DETECTING CYBER BULLYING ON SOCIAL MEDIA USING NAÏVE BAYES ALGORITHM", 16th International Conference on recent engineering and technology 2025 on 16th and 17th May 2025 organised by East West College of Engineering in association with Organisation of Science and Innovation Engineering Technology in collaboration with Samarkand State University, Uzbekistan
12. "Feature extraction from Ensemble of deep CNN model for image retrieval application" International Conference on Data Intelligence and Cognitive Informatics (ICDICI 2020) at SCAD College of Engineering and Technology, Tirunelveli, Published in Springer book on Data Intelligence and Cognitive Informatics, July 2020.
13. "Image Reteirval by fusion of features from Pre-Trained Deep Convolution Neural Networks"

First International Conference on Advanced Technologies in Intelligent Control, Environment, Computing and Communication Engineering (ICATIECE-2019) at Dayananda Sagar Academy of Technology and Management, Bangalore March 2019.

14. "UIDBA: Unique Identity & Biometric based Architecture for E-Governance Solutions" First International Conference on Advanced Technologies in Intelligent Control, Environment, Computing and Communication Engineering (ICATIECE-2019) at Dayananda Sagar Academy of Technology and Management, Bangalore March 2019.
15. "Prevention from Security Risks of Spyware by the use of AI" First International Conference on Advanced Technologies in Intelligent Control, Environment, Computing and Communication Engineering (ICATIECE-2019) at Dayananda Sagar Academy of Technology and Management, Bangalore March 2019.
16. "Hybrid Elastic web service resource mapping in cloud computing" International conference on Computer Networks, Security and Computing (ICCSC-2018) at Sri Venkateshwara College of Engineering Bangalore on May 4th & 5th 2018.
17. "Dynamic High Availability Architecture Framework for SOA Computing" ISTE Sponsored International Conference on Computer Networks, Security and Computing (ICCSC-2018) at Sri Venkateshwara College of Engineering Bangalore on May 4th & 5th 2018.
18. Presented a paper on "Best Practices in Women Engineering Track" at Third International Conference on Transformation in Engineering Education, from 08th Jan to 12th Jan 2016 at College of Engineering Pune in association with Indo-US collaborating in Engineering Education.
19. "Internet of Things - A Study on the Security Challenges", 2015 IEEE International Advance Computing Conference, on June 12-13, 2015, at B.M.S. College of Engineering, Bangalore, India, 978-1-4799-8046-8.
20. "Transformation in Engineering Education: An Analysis of Challenges and Learning Outcomes." Recent Advances in Education and Educational Technology", Proceedings of the 14th International Conference on Education and Educational Technology (EDU '15) April 23-25, 2015, ISSN: 2227-4618 ISBN: 978-1-61804-300-9, Kuala Lumpur, Malaysia, pp33-36, 2015.
21. "Hybrid Partitioning Algorithm for Area Mining in Circuits", in International Conference on Intelligent Computing, Communication and Convergence (ICCC-2014) on 27th – 28th December 2014 at IIMT Research Network, Bhubaneswar, Odisha, India.
22. "Cloud Performance Measure on Virtual Environment" in International E - Publication Third National Conference on advances in modern computing and application Trends (techman-14) on 5th December 2014 at Acharya Institute of Technology, Bangalore, ISBN: 978-93-84648-45- 9 Paper Id- 23, pp75-79.
23. "Dynamic Resource Mapping Webservice in Cloud Computing" National Conference on Technological Advancement in Computing, 25-26 July 2014, R V College of Engineering, Bangalore, Karnataka,
24. "Effective Architecture for Dynamic Bidirectional Resource Mapping Webservice in Cloud" International Symposium on " Research Innovation for Quality Improvement in Higher Education" on 10th and 11th 2014, at Research and Development Centre Bharathiar university Coimbatore.
25. "Pixel Scrambling Technique For Partial Image Encryption Algorithm" IEEE 8th European Modelling Symposium, EMS2014 Pisa, Italy, 21 - 23 October 2014
26. "A fast and secure image hiding scheme based on partial encryption technique" IEEE National Conference on Challenges in Research & Technology in the Coming Decades (CRT 2013), SDMIT, Ujire, 27th – 28th Sep 2013. E-ISBN: 978-1-84919-868-4.

27. "Identifying Key Considerations for Choosing a Suitable Business Model", accepted and presented in 3rd South Asian Management Research and Case Conference on 27th – 29th December 2013, IIM Bangalore, India.
28. "An Efficient Partial Encryption of an Image Using Pixel Value Manipulation Technique", International Conference on Mechanical Engineering, Industrial Materials and Industrial Electronics (MII 2013) held on September 1st -2nd, 2013, at Hong Kong.
29. "Simulation of Virtual Synchrony in a distributed environment", Proc of International conference on "Information, systems and computing" (ICISC2013), 4th January 2012, Sai ram engineering college, Chennai, pp 6 – 10
30. "Fault and Tolerant Method Using Cryptanalysis Techniques of Data Encryption Standard for Block Data", has been accepted in Seventh International Multi Conference on Information Processing (IMCIP-2013), the proceedings of 7th IMCIP -2013 will be published by Elsevier.
31. "Contention for Man-In-The-Middle Attacks in Bluetooth Networks", IEEE Fourth International Conference on Computational Intelligence and Communication Networks (CICN2012), during 3rd -5th November 2012, Mathura, Print ISBN: 978-1-4673-2981-1 pp. Published in IEEE Xplore.
32. "Partial Image Encryption Approach Using SCAN Mapping and Band Permutation", has been accepted in Seventh International Multi Conference on Information Processing (IMCIP-2013), the proceedings of 7th IMCIP -2013 will be published by Elsevier.
33. "Perceptive of information retrieval for Computer Aided Learning", in 55th Annual technical Convention on 28th -30th September 2012, Bangalore, India. IETE 2012, PP.106-109
34. "Energy balancing clustering for heterogeneous sensor network", International conference on mathematical modeling and applied soft computing 2012, Coimbatore, Vol 2, 11-13 July 2012, ISBN- 978-81-923752-2-9, pp 691-697.
35. "See the environment with your Phone – An application for the Visually Challenged", IEEE Spring world congress on Engineering and Technology, China, from 27th – 30th May 2012, ISSN 978-1-4577-1964-6, pp 313 – 316
36. "Linux based X86 server virtualization using KVM", "National Conference on Emerging & innovative Trends in Computer Science"- NCEITCS - 2012, Organized by Department of Computer science & Engg. Vasavi College of Engineering, 9-5-81, Ibrahimbagh, Hyderabad - 500031 and Computer Science of India (CSI), May 1-2, 2012. pp. 235 - 238.
37. "Why Phishing Attacks and Its Security Schemes", International Conference Cloud Computing and Service Engineering (CLUSE-2012)" ISEEC conference jointly organized by Kingston University UK ,at Rajarajeswari College of Engineering Bangalore on 11th & 13th April 12, pp no. 450 - 456, ISBN 978-93-5051-595-2
38. "CLIR Using Genetic Algorithm Approach for Myriad of Language", International conference on Cloud Computing and Service Engineering (CLUSE-2012), (ISEEC), jointly organized by Kingston University UK, at Rajarajeswari College of Engineering Bangalore on 11th - 13th April 12, ISBN 978-93-5051-595-2, pp. 428 – 434
39. "Model Based Testing to Reduce Software Development Efforts", International conference on Cloud Computing and Service Engineering (CLUSE-2012), (ISEEC), jointly organized by Kingston University UK, at Rajarajeswari College of Engineering Bangalore on 11th - 13th April 12, ISBN 978-93-5051-595-2
40. "Ramification of low energy security Enhancement Aspects in Bluetooth", International conference on Advances in computer, Electronics and electrical Engineering, Mumbai, 25th – 27th March 2012, ISBN: 978-981-07-1847-3, pp. 481 – 483.
41. "Conventional Ontology for Cross Language Information System", Proc of "IEEE International

Conference on Computing, Electronics and Electrical Technologies”, Kumaracoil, 21-22 March 2012, ICCEET-2012, pp.131

42. “Clustering Methodologies and their implications in sensor networks”, International conference on Advances in Communication network and computing CNC 2012, 24th – 25th February 2012, Chennai, LNICST, pp. 179 – 184.
43. “Analysis of Bluetooth Threats and v4.0 Security Features”, International Conference on Communication Computing and Applications (ICCCA 2012), 23rd- 24th February 2012, PSNA College of engineering, Dindigul, to be published in IEEE Xplore
44. “Employee Motivation using Motivational Techniques”, proc of The HR Conclave 2012: Employee First, Customer Next", at Belgaum on 17th & 18th Feb 12, ISBN 978-93-501-687-4 First Edition, Himalaya Publishing House, Pg. 259-263
45. “A comparative study on web crawling Algorithms”, Proc. of National conference on Frontiers of computer science and technology, 14th -15th Feb 2011, RRCE, Bangalore, pp. 348 – 351.
46. Virutlization for efficient usage of resources”, Proc. of National conference on Frontiers of computer science and technology, 14th -15th Feb 2011, RRCE, Bangalore, pp. 322 – 326.
47. “A Comprehesive Study on personalized web search techniques for efficient data retrieval”, Proc. of National conference on Frontiers of computer science and technology, 14th -15th Feb 2011, RRCE, Bangalore, pp. 129-132
48. “Virtual Integrated test team for telecommunication Ventures”, Proc. of the Second International Conference on computer applications, Pondicherry, 27th – 31st January 2012, pp. 178 – 180
49. “A comparative study on Best algorithm for Efficient Crawling”, Proc. of National Conference on Emerging drifts in Computer Applications and Technology, S A Engineering College, Chennai, 21st January 2012, pp. 154-157
50. “Web search techniques for efficient data retrieval”, Proc. of National Conference on Emerging drifts in Computer Applications and Technology, S A Engineering College, Chennai, 21st January 2012, pp. 187-191
51. “Cross language information retrieval approach in peer-to-peer network”, Proc of “The Third International Conference on Wireless and Mobile Networks, Bangalore, 2-4th January 2012, CCSIT 2012, Part I, LNICST 84, pp.394-401
52. “Role of women as Entrepreneurs” 4th National Women’s science congress, Rashtriya Mahila Vijnana Sammelana, 7th- 8th November 2011
36. “Accessibility Evaluation of Websites Using Screen Reader” 7th International Conference on Next Generation Web Services Practices (NWeSP 2011), University of Salamanca, Spain, October 19-21, 2011.
53. “Security Challenges in the Cloud Computing Environment”, International Conference on “Communication, Computing, Management and Nanotechnology”, ICN-2011, Bhalki, Bidar 23-25th Sep 2011
54. “Genetic Approach for Predicting the Missing Value of the Pixel” 3rd International Conference on Mechanical and Electrical Technology (ICMET 2011), ISBN: 978-0-7918-5981-0, Dalian, China, August 26-27, 2011, pp 501 – 505
55. “Web Accessibility Challenge Survey - for all Stake Holders”, 3rd International Conference on Mechanical and Electrical Technology (ICMET 2011), ISBN: 978-0-7918-5981-0, Dalian, China, August 26-27, 2011, pp 465 – 469
56. “Mining the Web Information for Cross Language Information Retrieval”, 3rd International Conference on Mechanical and Electrical Technology (ICMET 2011), ISBN: 978-0-7918-5981-0, Dalian, China, August 26-27, 2011, pp. 387 – 391
57. “Mining Services for Cache Replacement Method”, 3rd International Conference on Mechanical

and Electrical Technology (ICMET 2011), ISBN: 978-0-7918-5981-0, Dalian, China, August 26-27, 2011, pp 495 –499.

58. "Algorithm For Improving Accuracy In GPS Using Dual Frequency", 3rd International Conference on Mechanical and Electrical Technology (ICMET 2011), ISBN: 978-0-7918-5981-0, Dalian, China, August 26-27, 2011, pp 459 – 463
59. "A novel approach of classification techniques for CLIR", Proc of the International conference on Computer Science Engineering and applications, CCSEA, Chennai, 15-17th July 2011, pp.222-230
60. "Diaphragm Design for MEMS Pressure Sensors using a Data Mining Tool", Proceedings of The World Congress on Engineering 2011, The 2011 International Conference of Electrical and Electronics Engineering, London, 6-8th July 2011, ISBN: 978-988-19251-4-5, ISSN: 2078-0958 (Print); ISSN: 2078-0966 (Online) pp1353-1356
61. "Power Optimization in Ad hoc Sensor Networks using Clustering Approach", Proceedings of The World Congress on Engineering 2011, The 2011 International Conference on wireless networks, London, 6th – 8th July 2011 ISBN: 978-988-19251-4-5 ISSN: 2078-0958 (Print); ISSN: 2078-0966 (Online) pp1737-1740
62. "Analysis of Square and Circular diaphragms for a MEMS pressure sensor using a Data Mining tool", IEEE International Conference on Communication Systems and Network Technologies, SMVDU, Katra, Jammu, 3rd – 5th June 2011, pp 258 – 261
63. "Comparison of Hierarchical Mixed-Size Placement Algorithms for VLSI Physical Synthesis", International Conference on Communication Systems and Network Technologies (CSNT-2011), Khatra, Jammu, India, 3rd – 6th Jun 2011, pp. 430 -435
64. "A Comparative Study of Genetic Algorithm Based Approach for VLSI Physical Design" IEEE International Conference on Electrical, Computer, Electronics and Communication, WASET Conference, 14th – 15th April 2011, Venice, Italy.
65. "A Survey of Various Algorithms for VLSI Physical Design", Proc of ICECECE 2011: International Conference on Electrical, Computer, Electronics and Communication Engineering, WASET Thailand March 29-31, 2011, pp. 560 – 565.
66. "A flexible interface for security issues in Cloud Computing", Proc of the 3rd International conference on Machine Learning and Computing, Singapore, February 26 -28, 2011, V5 496 – 498
67. "The Importance of Women Education in Present social scenario", Women in Engineering, Science and Technology Forum, 6th IEEE-GCC Conference and Exhibition entitled "For Sustainable Ubiquitous Technology", 19th - 22nd February 2011 in Dubai - The United Arab Emirates
68. "A Survey on Mixed Size Placement Algorithm for VLSI Physical Synthesis", IEEE International Conference on Electrical, Computer, Electronics and Communication, WASET Conference, Penang, February 2011.
69. "Limit reservation through Ad hoc wireless sensor networks", International conference on computational engineering practices and techniques, Nov. 25 – 26, 2010 Kuttipuram, Kerala, pp. 06 – 10
70. "Optimization of circuit partitioning in VLSI through classification Algorithms", IEEE conference, TENCON 2010, Fukuoka, Japan, 978-1- 4244-6888-1/10 IEEE, 21st – 24th November 2010, pp. 1554 – 1557
71. "Study of recent trends in MEMS pressure sensor applications", proc. 3rd National women's science congress, Rashtriya Mahila Vijnana Sammelana, Davangere, 7 - 10th November, 2010, pp

72. "A 3D graphics library for embedded system", National Conference Information and communication technology in Rural development, Knowledge Utsav-2010, Jain College Bangalore, 28th August 2010
73. "A New approach for Efficient Component Retrieval for Reuse Based Software Products", International conference on Convergence of Science and Engineering in Education and Research- A Global Perspective in the new Millennium (ICSE 2010), Dayananda Sagar Institutions, Bangalore, 21st – 23rd April 2010.
74. "Study to improve the accuracy DGPS measurements using DSP tools", National Conference on "Emerging trends in Control, Communication, Signal processing & VLSI techniques, poster presentation, CCSV – 10, Oxford college of engineering, Bangalore, 21st April 2010.
75. "Cloud computing: A Glimpse of the horizon", National Conference on Advanced Computing Technologies – NCACT 2010, Avinashilingam University, Coimbatore, 19th February 2010, ISBN No. 978-93-80381-02- 2, pp 201-206
76. "Low-loss RF MEMS Fixed Free capacitive switch Characterization", Proc of International conference on IEEE Applied Electromagnetics conference AEMC 2009 and URSI Commission B meeting, 15th – 16th December, Kolkata, India 2009 IEEE No. 978-1-4244-4819-7/09
77. "Performance of low loss RF- MEMS fixed capacitive switch characterization", proc of International conference on IEEE Applied Electromagnetics conference AEMC 2009 and URSI Commission B meeting, 15th – 16th December, Kolkata, India 2009 IEEE No. 978-1- 4244-4819-7/09
78. "A Survey of Software Testing Approaches", National Conference on Network Security and Information Retrieval, 14th Dec-09, MCA, RVCE, B'lore, pp 44-53
79. "Secure Communication Between Servers", National Conference on Network Security and Information Retrieval, 14th December 2009, Dept of MCA, RVCE, Bangalore, pp33-39
80. "The importance of Women Empowerment in poverty Eradication", National Conference on Leveraging Innovation for Knowledge Economy, 19th-20th November 2009, J.N. Tata Auditorium, IISc Campus, Bangalore, pp 100-103
81. "An Analysis on Ethical Issues Due to Globalization", IEEE Women in engineering Congress 2009, 23rd – 24th October 2009, Bangalore, Poster presentation
82. "Partitioning techniques a CAD tool in VLSI design tested for optimization", National conference on Advanced communication and networking, 6th Jan, 2009, ISSN 09742-1518, Avinashilingam University of Women, Coimbatore, pp 335-346
83. "Statistical based anomaly detection technique for detecting intrusions in Snort N-IDS", International Conference on Computer Networks and Security, 27th – 28th September, 2008, Pune, pp. 73 – 78
84. "A Survey on Dual Core Processor", National conference on "Intelligent models for data processing and management, 2nd -3rd May 2008, conducted by Avinashilingam university at RVCE, Bangalore, pp. 38-41. 69. "Performance of Data Mining tool for Circuit Partitioning in VLSI", National Conference on Intelligent Models for data processing and Management, 2nd – 3rd May 2008 RVCE, Bangalore, pp. 42-44
85. "Carbon NanoTubes – A survey", National conference on Emerging Trends in IT, 25th – 26th April 2008, KLE Society's college of Engg, Belgaum, pp. 9- 12
86. "Education and Skill Training an adoptable strategy for Women Empowerment", 31st Indian Social Science congress, 27th – 31st December 2007, SNDT Women's University, Mumbai.

87. "Evaluation of Fuzzy ARTMAP with DBSCAN in VLSI Application", International Conference on Computer, Electrical, and Systems Science, and Engineering (CESSE), 14th-16th December, 2007, Bangkok, Thailand. ISSN 1307-6884; pp. 738-741.
88. "A New Clustering Approach for VLSI Circuit Partitioning", International Conference on Systems and Signal Engineering, 23rd – 24th, November 2007, Venice, Italy, ISSN 1307-6884; pp 524 - 526
89. "An Effective Way of Component Communication In A Reuse based Software Development Scenario", 2nd International Conference on Computer Communication Control & Instrumentation, 3CI-2007, November 2007, Dept of ECE, R.V.C. E, Bangalore, pp.103-107.
90. "Predicting Confidence Interval for Percentage Reuse of Major Artifacts For A Successful Reuse Based Software Development", National conference on Information Systems & Computer Engineering (NICE – 2007), 5th – 6th October 2007, Department of MCA, R.V.College of Engineering, Bangalore, pp.63-67
91. "Comparative study of evolutionary model and clustering methods in circuit partitioning pertaining to VLSI design", XX international conference on computer, electrical and system, science and engineering, 25th -27th April, 2007, Barcelona, Spain
92. "Identification Of Important Software Performance failure parameters using the methods of Attribute Relevance Analysis", International conference on Soft Computing Techniques in Engineering (Softech '07), January 2007, Avinashilingam University for women, Tamilnadu, Pg.98- 102
93. "Predictive Model For Software Performance Bottle-Neck Processor Using The Applications Of Acquaintenship Graphs", International Conference on Number Theory & Combinatorics, 19th - 22nd December, 2006 Srinivasa Ramanujam Center, Tamilnadu, Pg 63-67
94. "Applying Memetic Algorithm In VLSI Circuit Partitioning And Its Comparative Study With Genetic Approach", International Conference on Communication, Computer and Controls, 23rd – 25th November, 2006 RVCE, Bangalore, Pg 79-84.
95. "An Evolutionary Time- Series Model for Partitioning A Circuit Pertaining to VLSI Design Using Neuro Memetic Algorithm", proc of the Fourth IASTED International Conference on Circuits, Signals, and Systems, 20th – 22nd November, 2006, 2006, San Francisco, USA, Pg 325-329.
96. "Simulated Annealing For Circuit Partitioning In VLSI", National Conference on Intelligent Optimization Modeling, 3rd - 4th, March, 2006, Gandhigram Rural Institute-Deemed University, Gandhigram.
97. "Partitioning of VLSI circuits", National Seminar on Mixed Signals VLSI, 18th – 23rd February, 2006, Invited topic, AICTE New Delhi sponsored, Bangalore Institute of technology
98. "Efficient Network Flow Based Ratio-Cut Net list Hyper Graph Partitioning", National Conference on Emerging Trends in Industrial Automation & Control, 25th Aug, 2005, Adhiyamaan College of Engineering, Hosur
99. "Evaluation of Various Partitioning Methodology Issues In Solving VLSI Design Automation Problems", National Conference on Recent trends in Information Technology, 2nd - 3rd August, 2005. Sir MVIT, Bangalore, pp 325-329
100. "Revitalization of Secured System Concept using Absolute Secured Engine Injection into the Primitive System Architecture", IETE's – 36th Mid Term National Level symposium and exhibition on Emerging and Futuristic communications, 30th April – 1st May, 2005, JN Tata Auditorium, IISc, Bangalore

Awards

- Honored by Texas Instruments on India Innovation Challenge Design Contest 2018.
- Honored by Institute of Engineer India, for the outstanding contributions in the field of Computer Science and Engineering, during 49th Engineer Day and birth Anniversary of Bharatha Ratna Dr. Sir. M. Visvesvaraya, 15th September 2016, Mysore Local Centre, Mysore.
- Distinguished Scientist Award for the contribution and achievements in the field of Computer Science and Engineering by Centre for Advance Research and Design, Venus International Foundation Research, Chennai on 19th December 2015. (Nomination Code: F. No. VIFRA 2015 / 2155 | Certificate No.: RASN2015 – 0192)
- IBM TGMC Mentor Award - 2014, for supporting IBM Academic Initiative activities under IBM CoE, RVCE.
- IBM Award nomination, for an outstanding work done and for the continuous contribution, 2006
- Bhartiya Shiksha Samman Puraskar for “Excellence in chosen field of activity” by Nations Economic for Health and Educational Growth, New Delhi on the occasion of 10th National Seminar on “Individual Achievements and National Development”, 28th Dec’2004
- Received certificate of appreciation from ISTE, RVCE chapter for presenting papers in International conferences during the year 2004- 2005
- Award for Doctorate in Education by Global Society for Health & Educational Growth, New Delhi on the occasion of 21st National Seminar on Individual Achievements and National Development, 10th April, 2006.
- Best Faculty Award by Cognizant Technology, Bangalore on the occasion of Teachers Day Celebration, RVCE, 9th Sept 2010

Academic Activity

Established and Chief Coordinator for Women Empowerment and Skills Training Centre (WEST), RVCE and the key person for the inception of a women empowerment cell - Center for Women Empowerment and Skills Training -WEST at R V college of Engineering, Bangalore. The objective of the center is to provide training for the poor and under privileged women to empower them with technical skills thus making them employable with self-employability, in association with the below forums, and successfully completed 25 batches of 20 students each.

- Sponsored by Rotary Club, Peenya, Bangalore
- Sponsored by Karnataka State Women’s Development Corporation, Government of Karnataka
- (2 times)
- Sponsored by Cognizant Technology Solutions, Bangalore
- Sponsored by DST, Delhi under TEDP

PROFESSIONAL MEMBERSHIPS

- **Member of ASEE-WIED**
(American Society for Engineering Education – Women In Engineering Division)
- **Senior Member of IEEE, WIE** (41603049)
- **Senior Member of Computer Society of India –SMCSI.** (10079452)
- **Life Member of Institution of Electronics & Telecommunications Engineering Fellow– IETE**

(M165683)

- **Life Member of Indian Society for Technical Education – ISTE** (LM32224)

- **Member of Indian Heritage Academy – IHA**

- **Professional Member of IAENG** (International Association of Engineers)

ABROAD VISITS W.R.T CONFERENCES

London, Japan, Dubai, Nepal, Singapore, Malaysia, Bangkok, Mauritius

ACHIEVEMENTS AS A PRINCIPAL INSTITUTE

LEVEL:

NBA/e-SAR Process for all branches:

- Session for filling SAR.
- Documentation for the same.
- Uploaded SAR for 5 branches.

Conferences:

- First International Conference on Advanced Technologies in Intelligent Control, Environment, Computing and Communication Engineering (ICATIECE-2019) at Dayananda Sagar Academy of Technology and Management, Bangalore March 2019
- IEEE International Conference on Electrical, Electronics, Communication, Computer and Optimization Techniques (ICEECCOT) 9th -10th December 2016, successfully completed with IEEE Digital Library paper publication of this conference.
- 29th CSI Student convention conducted on 12th September 2015.
- National Conference 1 in each departments and Project/ Coding / Robo/Renewal Energy Competition in all the departments.
- Outcome based education Concepts introduced in teaching learning process.

Professional Forum:

- Initiated and established Students Chapters of CSI, IEEE, IETE, ISI and ISTE.
- Introduced department News letter/ College Magazine.
- Introduced Science Forum for I year B.E.

Faculty Level:

- Ph.D.s at HoD Level at all departments.
- Faculty Publications at all departments.
- Increasing in number of Ph.D. registration by faculty across campus.
- Best Practices in respective subjects by delivering research oriented current trends every 15 days during academics, faculty Symposium/Publication from the same.
- Self Appraisal system for faculty.
- Supporting the file documentations to all departments.

STUDENT LEVEL:

- Placement Supports.
- Student Publications.
- Elective based Mini Project concepts from 6th Semester.
- 8th Semester Project/Internship quality without any paid project.
 - Papers out of the project work.
 - Symposium based on this inviting Alumni for evaluation (Thus strengthening Alumni support on campus)
- Cultural/Technical/Sports- Events conduction/participation by the students on campus
- Introduced 2nd & 4th Saturday technical events by Industry experts in respective departments for semester wise subjects.
 - EDC Activities.
 - NSS Activities.
- Science Forum Activities.
- Online Feedback system for Faculty.
- Project competition symposium for every 7th and 8th semester end.
- IEEE student branch on campus, events under the same.
- Students counseling system improvements.

M.Tech and MBA Students are provided with:

- Technical Seminar to B.E students in respective subject based on the current research topics identified and signed by subject faculty, thus improving the communication capability of the students.
- Sessions on Technical survey and the paper writing.
- Mini projects based on the Elective subjects and publication out of the same.
- Technical/Project Symposium for Seminar/Internship/Project related work.
- Placements/Internship training and supports with reputed companies.

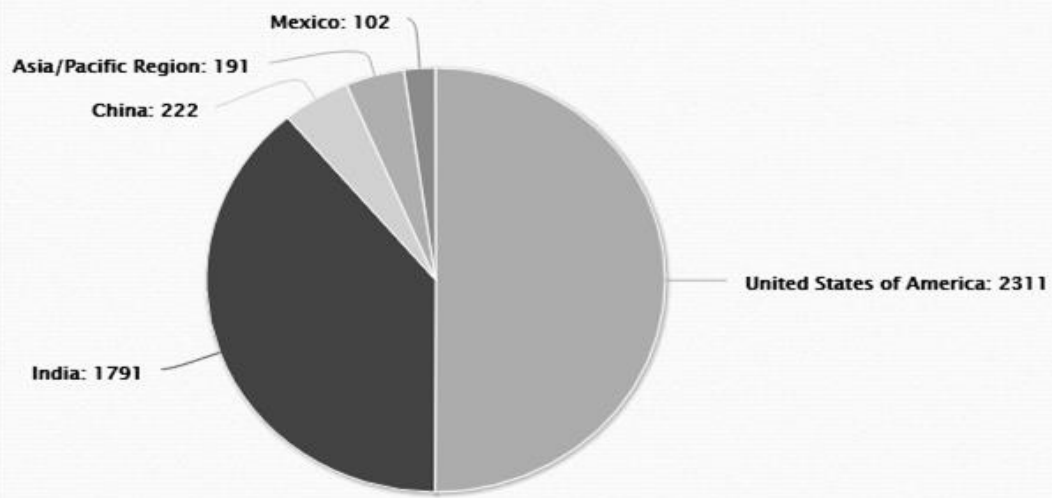
ACHIEVEMENTS

☐ **Books / Monographs**

- Written book chapter titled “CAD algorithm for VLSI design” in the book "VLSI Design ", published by In-Tech Publications, ISBN 979- 953-307-512-8, 2011.

Cumulative Downloads By Countries (Total: 8183)

Algorithms for CAD Tools VLSI Design



- K.A. Sumithra Devi, “Operating Systems”, Text Book published by Shroff Publishers and Distributors Pvt. Ltd, India, 2010, 2nd Edition
- On Editorial Board of book” FUTURE COMPUTING”, published by Narosa publishing House, ISBN 978-81-8487-271-2

Contact Details

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DSATM Computer Science & Engineering (Data Science).