




## K. S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Road, Bangalore-560109.

<b>Faculty Name</b>	Dr. Dhanalakshmi Senthilkumar	
<b>Designation</b>	Professor	
<b>Educational Qualification</b>	BE., ME., Ph.D	
<b>Experience in Years</b>	23 years	
<b>Areas of Interest</b>	Medical Image Processing, Machine Learning, Artificial Intelligence, NLP, Data Mining. Data Analytics	
<b>E-mail</b>	<a href="mailto:dr.dhanasenthil@ksit.edu.in">dr.dhanasenthil@ksit.edu.in</a>	

### Educational Details

Examination/ Degree	College / University	Year of Passing
Ph.D - CSE	ANNA UNIVERSITY, CHENNAI	2016
ME., - CSE	ANNA UNIVERSITY, COIMBATORE (Full Time)	2010
BE., - CSE	Sethu Institute of Technology, Madurai Kamaraj University, Madurai	1999

### Publications

**Orchid:** <https://orcid.org/0000-0003-0363-5370>

**Google Scholar Citations:** <https://scholar.google.com/citations?user=m6cu6HwAAAAJ>

**Scopus Profile:** <https://www.scopus.com/authid/detail.uri?authorId=57209426044>

### PAPER PUBLISHED IN JOURNALS

1. "Image Segmentation Using Thresholding and Genetic Algorithms", in International Journal of Advanced Innovative Research (IJAIR), Volume 1, Issue 3, ISSN: 2278-7844, August 2012, PP 240-244
2. "A Modified Approach for Image Segmentation in Information Bottleneck Method", in International Journal by Advanced Research in Computer Engineering and Technology (IJARCET), Volume 1, Issue 7, ISSN: 2278 – 1323, September 2012, PP 59-63
3. "A New Method for Image Segmentation", in International Journal of Advanced Research in computer science and software engineering (IJARCSSE), Volume 2, Issue 9, ISSN: 2277 128X, September 2012, PP 293-299
4. "A Survey of Different Image Segmentation Process Using Genetic Algorithm Approach", in International Journal of Engineering Associates (IJEAs), Volume 1, Issue 2, and ISSN: 2320-0804, December 2012, PP 12-18

5. "Survey on Security Schemes for Biometric Privacy", International Journal of Computer Applications (IJCA), Volume 60, No.1, ISSN:0975-8887, December 2012, PP 197-200
6. "Blood Vessel Segmentation for Retinal Images Based on AM-FM Method", in Research Journal of Applied Sciences, Engineering and Technology, Maxwell Scientific Organization (MAXWELL SCI), 4(24): 5519-5524, ISSN: 2040-7467, December 2012, PP 5519-5524 (SCOPUS/Annexure-II Journals)
7. "A Survey of Watermarking Process", International Journal of Advanced Innovative Research (IJAIR), ISSN: 2278-7844, Volume 2 & Issue 2, Pages 433-438, February 2013
8. "A New Level of Image Processing Technique using Cryptography and Steganography", in International Journal of science, Engineering and Technology Research (IJSETR) Volume 2, Issue 3, ISSN: 2278-7798, March 2013, PP 659- 665
9. "Implementing HASBE Scheme for setting up access controls in out-sourced data Clouds", in International Journal of science, Engineering and Technology Research (IJSETR) Volume 2, Issue 4, ISSN: 2278-7798, April 2013, PP 877- 880
10. "Employing HASBE Scheme for Assisting Access Controls in Out-Sourced Data Clouds", in International Journal of Computer Science and Technology (IJCST) Volume 4, Issue 2, June 2013, ISSN: 0976-8491 (Online) | ISSN: 2229-4333 (Print), PP 610-613
11. "Biometric Privacy using Non-Expansible Visual cryptography scheme", International Journal of Advanced Information Science and Technology (IJAIST) Volume 14, No 14, June 2013, ISSN: 2319:2682, PP 93-96
12. "Novel Quality Metric for Improving Second Order Statistics and Peak Signal-to-Noise Ratio" in Elsevier Publications 2013
13. "Human Action Recognition using Fuzzy Logic Algorithm", Star Research (STAR) Volume 1, No 5, ISSN: 2321:676X, PP 7-12, November 2013
14. "Color Varying Distribution Using Unsupervised Method", in International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET) Volume 3, Special Issue 1, ISSN: 2347-6710, February 2014, PP 354-357
15. "Multidimensional Object Parsing from Structured Noise", in International Journal of Innovative Research in Science, Engineering and Technology (IJIRSET) Volume 3, Special Issue 1, ISSN: 2347-6710, February 2014, PP 330-332
16. "Gradient Watershed Transform Based Automated Cell Segmentation for THG Microscopy Medical Images to Detect Skin Cancer", in The International Journal of science and Technoledge (The IJST) Volume 2, Issue 3, ISSN: 2321- 919X, March 2014, PP 98-102
17. "Uniformpicturization of Nuclear Architecture in Glioblastoma Multiforme for Clinical and Molecular Combination", in Australian Journal of Basic and Applied Sciences (AJBAS) Volume 8, Issue 15, ISSN: 1991-8178, September 2014, PP 188-195 (SCOPUS/Annexure-II Journals)
18. "Study on Various Techniques in Hand Gesture Recognition", in International Journal of

Advanced Innovative Research (IJAIR), Volume 3, Issue 11, ISSN: 2278-7844, November 2014, PP 206-209

19. "Improving Privacy In Multi keyword Top-K Retrieval Over Encrypted Cloud Data", in International Journal of Advanced Innovative Research (IJAIR), Volume 3, Issue 11, ISSN: 2278-7844, November 2014, PP 298-301
20. "Novel Quality Metric for Improving Image Watermarking Techniques", in Journal of Computing and Technologies (JCT) Volume 3, Issue 8, ISSN: 2278-3814, August 2014
21. "A Survey of Different Image Segmentation Techniques and K-Means Algorithm", in
22. International Journal of Software & Hardware Research in Engineering (IJSHRE), Volume 3, Issue 3, ISSN: 2347-4890, March 2015, PP 33-36
23. "An Efficient Rain Detection and Removal from Videos using Rain Pixel Recovery Algorithm", in International Journal of Engineering Research Technology (IJERT), Volume 3, Issue 15, ISSN: 2278-0181, March 2015, PP 25-27
24. "Achieving Privacy Preserved Content Retrieval with Assured Rank Integrity", in International Journal of Engineering Research Technology (IJERT), ISSN: 2278-0181, March 2015, Volume 3, Issue 15, PP 28-31
25. "Guaranteed Top K Retrieval of Contents Over Encrypted Cloud Data Using Fried Rank Man Testing", in International Journal of Applied Engineering Research Technology (IJAER), Volume 10, No.41, ISSN: 0973-4562, June 2015, PP 30449-30453 (SCOPUS/Annexure-II Journals)
26. "An Efficient Rain Detection and Removal from Videos Using Rain Pixel Recovery Algorithm", in International Journal of Applied Engineering Research Technology (IJAER), Volume 10, No.41, ISSN: 0973-4562, June 2015, PP 30484- 30486 (SCOPUS/Annexure-II Journals)
27. "A Survey on Criminal Identification Using Multi Biometric Traits in Image Processing", in International Journal of Computer Science and Engineering, (IJCSE), Volume 3, Issue:9, E-ISSN: 2347-2693, September 2015, PP 201-204
28. "Survey on Detection of Glaucoma in Fundus Image by Segmentation and Classification", International Journal of Engineering Research Technology (IJERT), Volume 4, Issue 9, ISSN:2278-0181, September 2015, PP 529-532
29. "Wiener Filter Operation on Blurred Images", International Journal of Engineering Research Technology (IJERT), Volume 10, Special Issue 8, ISSN:2278-0181, September 2015, PP 197-200
30. "Criminal Identification Using Biometric Traits in Image Processing", International Journal of Applied Engineering Research Technology (IJAER), ISSN 0973-4562 Vol. 10 No.85 (2015), October 2015, PP 265-268 (SCOPUS/Annexure-II Journals)
31. "Wiener Filter Operation on Blurred Images", International Journal of Applied Engineering Research Technology (IJAER), ISSN 0973-4562 Vol. 10 No.85 (2015), October 2015, PP 197-200 (SCOPUS/Annexure-II Journals)

32. “Automated Testing Tools for Different Coverage Metrics”, International Journal of Advanced Innovative Research (IJAIR), Volume 5, Issue 10, ISSN: 2278-7844, October 2016, PP 120-123
33. “Disclosure of Malevolent in MANET: A Survey, International Journal of Research in Technological Studies (IJRTS), Volume 4, Issue 1, ISSN:2348-1439, December 2016, PP 31-34 (SCOPUS/Annexure-II Journals)
34. Content Delivery Networks - A Survey”, International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Volume 7, Issue 7, July 2017, and ISSN: 2277 - 128X, PP 228 – 230. (UGC JOURNALS)
35. Analysis and Performance of Divide and Conquer Methodology”, International Journal of Advanced Research in Computer Engineering & Technology (IJARCET), Volume 6, Issue 8, August 2017, PP 1295 - 1298, ISSN: 2278 – 1323 (UGC JOURNALS)
36. Evaluating Breast Cancer using Mammogram Imaging”, Asian Journal of Information Technology, ISSN: 1682-3915 (Print), Volume 16, Issue 2, November 2017, PP 178 – 180. (SCOPUS/Annexure II JOURNALS)
37. “AM - FM BASED METHOD IN RETINAL IMAGES FOR BLOOD VESSEL SEGMENTATION, International Journal of Electronics, Electrical and Computational Systems, Volume 6, Issue 11, November 2017, ISSN: 2348 – 117X, PP 352 – 361. (UGC JOURNALS)
38. “Representation of Quad Tree Decomposition and Various Segmentation Algorithms in Information Bottleneck Method”, International Journal of Recent Trends in Engineering Research (IJRTER), Volume 4, Issue2, February 2018, ISSN: 2455-1457, PP 198 -207 (UGC JOURNALS – 4.101)
39. “An Overview of Combinatorial Optimization Techniques”, International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), Volume 3, Issue1, January - March 2018, ISSN: 2456- 3307, PP 1052-1055 (UGC JOURNALS – 4.032)
40. “CLEANING BIG DATA - AN INTERACTIVE APPROACH WITH SQOOP AND HIVE”, International Science and Technology Journal (ISTJ), Volume 7, Issue 5, May 2018, ISSN: 1632-2882, PP 56-60 (UGC JOURNALS – 5.3)
41. “Building a Blockchain Approach with Hyperledger Transaction Flow and Distributed Consensus Algorithms”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume 8, Issue 2S, December 2018, PP 423-426 (Scopus Index International Journals – 5.54)
42. Published a Paper titled on,” Performing Investigations for Probably Identifying and Predicting the Breast Cancer Using Accumulations Schemes”, Journal of Engineering Technological Research, ISSN: 2229 – 9262
43. Overview of Data Management in Cloud Computing, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume 7, Issue 5C, February

2019, PP 61-64 (Scopus Indexed Journals - 5.41)

44. Overview of Managing Data Storage, Resource Models and Security Issues in Cloud Computing Environment, International Journal of Recent Technology and Engineering (IJRTE), ISSN: 2277-3878, Volume 7, Issue 5C, February 2019, PP 75-79 (Scopus Indexed Journals - 5.41)
45. A Maximize Remote Data Controlling and Checking Scheme in Cloud Computing”, International Journal of Engineering and Advanced Technology (IJEAT) ISSN:2249 – 8958, Volume-8, Issue-3S, February 2019, PP 252-255 (Scopus Indexed Journals - 5.97)
46. Big Data Management Using Cloud Computing Environment”, International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-8, Issue-3S, February 2019, PP 870-872 (Scopus Indexed Journals - 5.97)
47. “Stylometric Analysis of Annotated Speech to Study Behaviour of the Speaker”, International Journal of Research (IJR), ISSN NO:2236-6124, Volume 8, Issue 5, May 2019, PP 953 – 962 (UGC Approved Journal - SI NO. 63072, SCOPUS SUGGESTED JOURNAL ID: 10J6CF07B9446F97, Impact Factor: 5.7)
48. A Scalable Framework for Stylometric Analysis on a Speech Data”, Journal of Research in Science, Technology, Engineering and Management (JoRSTEM) ISSN: 2456-0197, Volume-8, Issue-2, June 2019, PP 15-19 (MREC JORSTEM JOURNAL)
49. “An Examination of Big Data and Blockchain Technology, International Journal of Innovative Technology and Exploring Engineering (IJITEE), ISSN: 2278-3075, Volume 8, Issue 11, September 2019, PP 3118 - 3122 (Scopus Indexed Journal - 5.54), September 2019
50. “A framework for eHealth Care Based on Medical IoT” – Indian Journal of Natural Sciences (IJONS), ISSN: 0976-0997, Volume 13, Issue 13, August 2022, PP 46495 – 46502 (Web of Science Journal – 2.452)
51. “Sentiment Analysis and Classification Using Convolutional Neural Network Architecture”, IEEE Explore, ISBN: 978-1-6654-7657-7, DOI: 10.1109/ICTACS56270.2022.9988084, PP 836-841, 28 December 2022, Publisher: Institute of Electrical and Electronics Engineers (IEEE – Indexed in Scopus Journals), INSPEC Accession Number: 22448710
52. “Dual Machine-Learning System to Ensemble Algorithm for Glaucoma Diagnosis Using Support Vector Machine”, International Journal for Innovative Engineering and Management Research”, DOI: 10.48047/IJIEMR/V12/ISSUE 01/13, ISSN 2456 – 5083, Volume 12, ISSUE 01, Pages: 131-141, January 2023 (ELSEVIER SSRN – 7.812)
53. Emotion recognition by textual tweets classification using Voting Classifier (LR-SCD) Industry Engineering Journal, ISSN: 0970-2555, Volume: 53, Special Issue 4, PP 16-31, April:2024, (UGC CARE Group-1)
54. Diabetes Prediction Using Machine Learning Techniques, Industry Engineering Journal, ISSN: 0970-2555, Volume:53, Special Issue 4, PP 32-59, April 2024,(UGC CAREGroup-1)
55. Optimized stacked ensemble techniques in the prediction of Cervical cancer using smote and RFERF, Fuzzy Systems and Soft Computing, ISSN:1819-4362, Vol.09, Issue. 1, PP 82-87,

January-June: 2024

56. Machine learning applied in sars-cov-2 covid 19 screening using Clinical analysis Parameters, ISSN:1819-4362, Vol.09, Issue. 1, PP 88-98, January-June: 2024,(UGC CARE Group-1)
57. AI-Based Network Traffic Prioritization for Latency-Sensitive Applications in 6G Networks DOI: 10.1109/ICICAT62666.2024.10922974 , IEEE Xplore: 20 March 2025, Pages: 947 - 951, Publisher: IEEE
58. Predictive Analytics in the Healthcare Industry: Machine Learning for Early Diagnosis PP 257 -270, Print ISBN: 978-981-97-9261-0, Online ISBN: 978-981-97-9262-7, DOI: [https://doi.org/10.1007/978-981-97-9262-7\\_22](https://doi.org/10.1007/978-981-97-9262-7_22) , Published: dated on 25 March 2025, Publisher Springer, Singapore (Scopus Indexed)
59. Machine Learning Models for Anomaly Detection in Data Mining, pp 149–161, Print ISBN: 978-981-97-9261-0, Online ISBN: 978-981-97-9262-7, DOI: [https://doi.org/10.1007/978-981-97-9262-7\\_14](https://doi.org/10.1007/978-981-97-9262-7_14) , Published: dated on 25 March 2025, Publisher Springer, Singapore(Scopus Indexed)
60. Learning and Inference of Graph Discrete Structures for Graph Neural Networks in ML, PP 291 – 301, Print ISBN: 978-981-97-9261-0, Online ISBN: 978-981-97-9262-7, DOI: [https://doi.org/10.1007/978-981-97-9262-7\\_25](https://doi.org/10.1007/978-981-97-9262-7_25), Published: dated on 25 March 2025, Publisher Springer, Singapore (Scopus Indexed)
61. Machine Learning Privacy Preserving in Distributed Systems Using Federated Learning, pp 559–567. Print ISBN: 978-981-97-9261-0, Online ISBN: 978-981-97-9262-7, DOI: [https://doi.org/10.1007/978-981-97-9262-7\\_48](https://doi.org/10.1007/978-981-97-9262-7_48) , Published: dated on 25 March 2025, Publisher Springer, Singapore (Scopus Indexed)
62. Natural Language Processing for Sentiment Analysis: Neural Network Models, pp 767–777, Print ISBN: 978-981-97-9261-0, Online ISBN: 978-981-97-9262-7,DOI: [https://doi.org/10.1007/978-981-97-9262-7\\_66](https://doi.org/10.1007/978-981-97-9262-7_66),Publisher Springer, Singapore (Scopus Indexed)
63. Industrial IoT Predictive Maintenance Using Machine Learning Approach, pp 907–918 Print ISBN: 978-981-97-9261-0, Online ISBN: 978-981-97-9262-7, DOI: [https://doi.org/10.1007/978-981-97-9262-7\\_78](https://doi.org/10.1007/978-981-97-9262-7_78) , Published: dated on 25 March 2025, Publisher Springer, Singapore (Scopus Indexed)

#### **PUBLISHED IN CONFERENCES**

1. “Improving Reliability and Energy Consumption in WMSN’s using Cross Layer Approach” National Conference on Networks Intelligence and Computing systems NCNICS’12 on 16 th February 2012
2. Blood Vessel Segmentation for Retinal Images Based on Am-Fm Method” International Conference on Image Processing Theory and its Applications ICIPTA 2012, February 2012
3. “Implementation of Cloud Data Server (CDS) for providing secure service in E-business” National Conference on Innovations in Communication in Engineering NCICC’12, on 16 th March 2012
4. “A Comparative Study of various Routing Protocols in Wireless Sensor Networks” in the

- Seventh National Conference on Networks, Intelligence and Computing systems NCNICS'12 Organized by SNS college of Technology, Coimbatore, held on 14 th February 2013
5. "Discovering Routes by using RLBMA Protocols in Mobile Ad-hoc Networks" in the International Conference on Futuristic Trends in Computer Science and Engineering & Information Technology ICFTCT'13 Organized by Thiruvalluvar College of Engineering and Technology, in association with International Society of Automation (ISA) held on 2 nd and 3 rd March 2013
  6. "Mobile Application for Accessing the Data's through Mobile Devices: a survey" in the International Conference on Advanced Computing, Machines and Embedded Technology ICACT'13 Organized by J.K.K. Nattraja College of Engineering and Technology, held on 8 th and 9 th March 2013
  7. "Biometric Privacy Using Non-Expansible Visual Cryptography System" in the International Conference on Advanced Computing, Machines and Embedded Technology ICACT'13 Organized by J.K.K. Nattraja College of Engineering and Technology, held on 8 th and 9 th March 2013
  8. "Attribute Based Encryption for Efficient Access Control in Data Cloud" in the International Conference on Advanced Computing, Machines and Embedded Technology ICACT'13 Organized by J.K.K. Nattraja College of Engineering and Technology, held on 8 th and 9 th March 2013
  9. "Representation of Quad-tree Decomposition and Various Segmentation Algorithms" in the International Conference on Knowledge Collaboration in Engineering 2014 ICKCE'14 Organized by Kathir College of Engineering, Coimbatore held during 24th and 25th January 2014.
  10. "Human Action Recognition in Fuzzy Logic Algorithm" in the National Conference on Innovations in Communication and NCNICC-2014 Organized by SNS college of Technology, Coimbatore held on 20 th February 2014
  11. "Color Varying Distribution Using Unsupervised Method", in the International Conference on Engineering, Technology and Science ICETS'14 Organized by Muthayammal college of Engineering, Rasipuram held on February 2014
  12. "Multidimensional Object Parsing from Structured Noise", in the International Conference on Engineering, Technology and Science ICETS'14 Organized by Muthayammal college of Engineering, Rasipuram held on February 2014
  13. "Gradient Watershed Transform Based Automated Cell Segmentation for Third Harmonic Generated Microscopy Medical Images to Detect Skin Cancer", in the International Conference on Global Innovations in Computing Technology Organized by Jay Shriram Group of Institutions Tirupur, in collaboration with ST. FRANCIS XAVIER UNIVERSITY, Canada, held on 6 th and 7 th March 2014
  14. "Analysis of Multimodel Medical Images based on Image Fusion Techniques using non-sub sampled Contour let Transform" in the Eighth National Conference on Networks, Intelligence and Computing systems NCNICS'14 Organized by SNS college of Technology, March 2014 Coimbatore.
  15. "Safety Helmet Detection for Motorcycles" in the Sixth National Conference on Latest Trends in Computing Environment Organized by Velalar College of Engineering and Technology, Erode, held on 15 th March 2014
  16. "An Efficient Rain Detection and Removal from Videos using Rain Pixel Recovery Algorithm", in First IEEE International Conference on Soft- computing and Network Security (ICSNS'15) Organized by SNS college of Technology, Coimbatore, during 25 th to 27 th February 2015
  17. "Guaranteed Top K Retrivel of Contents over encrypted cloud data using fried rank man testing", in First IEEE International Conference on Soft-computing and Network Security

(ICSNS'15) Organized by SNS college of Technology, Coimbatore, during 25th to 27th February 2015

18. "An Efficient Rain Detection and Removal from Videos using Rain Pixel Recovery Algorithm", in Seventh National conference on Advanced Computing Systems (NCACS'15) Organized by Hindusthan College of Engineering and Technology, Coimbatore held on 19 th to 20 th March 2015
19. "Achieving Privacy Preserved Content Retrieval with Assured Rank Integrity", in Seventh National conference on Advanced Computing Systems (NCACS'15) Organized by Hindusthan College of Engineering and Technology, Coimbatore held on 19 th to 20 th March 2015
20. "A Survey on different Image Segmentation Techniques and k- means Algorithm", in the First International Conference on Recent Advances and Innovations in Engineering and Technology (ICRAIET'15), Organized by Ranganathan Engineering College, Coimbatore, during 21 st March 2015
21. "Mining in Scalable and Secured Data in Third Party Storage using Twin Key Encryption for PHR", in International Conference on Emerging Trends in Engineering Technology (ICETET'15), Organized by Nehru Institute of Engineering and Technology, held on 27 th March 2015
22. "Secured path Discovered to Detect Leech Attacks in Wireless Sensor Networks", in International Conference on Emerging Trends in Engineering Technology (ICETET'15), Organized by Nehru Institute of Engineering and Technology, held on 27th March 2015
23. "Glaucoma Screening in Retinal Fundus Images using Different Techniques - A Survey", in First International Conference on Modeling, Simulation and Control (ICMSC'15), Organized by Karpagam College of Engineering, Coimbatore, held on 15 th and 16 th October 2015
24. "Wiener Filter Operation in Blurred Images", in First International Conference on Modeling, Simulation and Control (ICMSC'15), Organized by Karpagam College of Engineering, Coimbatore, held on 15 th and 16 th October 2015
25. "Criminal Identification Using the Biometrics Trait in Image Processing", in First International Conference on Modeling, Simulation and Control (ICMSC'15), Organized by Karpagam College of Engineering, Coimbatore, held on 15 th and 16 th October 2015
26. "Correcting Non-Uniform Illumination of an Image with Enhancement Operation", in International Conference on Green, Intelligent Computing and Communication (ICGICCS'16), Organized by Hindustan College of Engineering & Technology, Coimbatore, held on 10 th and 11 th March 2016
27. "An Adaptive Thresholding Technique to Detect Glaucoma in Retinal Fundus Image", in IEEE Sponsored 3rd International Conference on Innovations in Information Embedded and Communication Systems (ICIIECS'16), Organized by Karpagam College of Engineering, Coimbatore, held on 17 th and 18 th March 2016
28. "Constructing Nuclear Architecture in Gliblistoma Multiforme Molecular Combination", in 6th International Conference in Magna on Emerging Engineering Trends held on (ICMEET'16), Organized by Hindustan College of Engineering & Technology, Coimbatore Magna College of Engineering, Chennai – 600 055, held on 10th and 11 th March 2016
29. "Automated Testing Tool for Different Coverage Metrics", in 7th International Conference on Emerging Techniques in Engineering, Science and Management (ICETESM 2016), International Organization of Scientific Research and Development (IOSRD), Coimbatore, India, held on 25 th and 26 th November 2016
30. "Symbolic Analysis Tool for Branch Coverage, Path Coverage and Code Coverage", in 7th International Conference on Emerging Techniques in Engineering, Science and Management

- (ICETESM 2016), International Organization of Scientific Research and Development (IOSRD), Coimbatore, India, held on 25 th and 26 th November 2016
31. " Security Based Protocol Design in Mobile ADHOC Networks using Cooperative Bait Detection Approach", in 2017 International Conference on Advanced Computing and Communication Systems (ICACCS'17), Eshwar College of Engineering and Technology, Coimbatore, held on 6 th and 7 th January 2017
  32. "AM - FM BASED METHOD IN RETINAL IMAGES FOR BLOOD VESSEL SEGMENTATION", in Bangalore Conference- 5th International Conference on Advancement in Engineering, Applied Science and Management (ICAEASM- 2017), (IETE, Bengaluru) Institution of Electronics and Telecommunication Engineers, 1st Cross Road, Bellary Road, Ganganagar, Bengaluru, Karnataka 560032, held on 26 th November 2017
  33. "Software Bugs Tracking System to measure the cost for Software Maintenance", in International Conference on Computational Intelligence, Networks & IOT (ICCNIoT 2018), Organized by Malla Reddy Engineering College(A), Secunderbad, India, held on 12 th April 2018
  34. Rubric Based Assessment for Analyzing the Skills of a Specific Course in Engineering Students", in International Conference on Transformations in Engineering Education Imparting Futuristic Skills, ICTIEE-AP 2018, Organized by IUCEE held at SRM University, Amaravati, Andhra Pradesh held on 15 – 17 July 2018
  35. "Performing Investigations for Probably Identifying and Predicting the Breast Cancer Using Accumulations Schemes", in International Convention on Innavative Scientific Research Strategies (ICISPS 2018) in Science, Engineering, Business Management Applications & Medical Technology In Association with Universiti Tecknologi MARA – Puncak Alam, Malaysia held on 20 th 21 st October 2018.
  36. "Technical Quality Based Visual Representations of Formative Assessment Systems with Rubrics", in The Sixth International Conference on Transformations in Engineering Education, ICTIEE' 2019, Organized by IUCEE held at Malla Reddy Engineering College (A), Hyderabad held on January 7 & 8 2019
  37. "Sentiment Analysis and Classification Using Convolutional Neural Network Architecture", 2nd International Conference on Technological Advancements in Computational Sciences (ICTACS-2022), Organized by Amity University, Uttar Pradesh, India, dated on 10th to 12th of October 2022. ISBN: 978-166547657-7, DOI: 10.1109/ICTACS56270.2022.9988084, Publisher: Institute of Electrical and Electronics Engineers - IEEE Explore
  38. "Dual Machine-Learning System to Ensemble Algorithm for Glaucoma Diagnosis Using Support Vector Machine", Second International Conference on Computational Intelligence Data Engineering (ICCIDE-2023), dated on 6 th & 7 th January 2023, DOI: 10.48047/IJIEMR/V12/ISSUE 01/13, ISSN 2456 – 5083, Organized by Vidya Jyothi Institute of Technology(A), Hyderabad
  39. Dynamic Power Balancing for the Best Possible Power Grid Setup, 4th International Conference on "Power, Energy, Environment and Intelligent Control (PEEIC 2024) dated on 24 th to 28 th Dec 2024, IEEE Conference, Organized by GL BAJAJ Institute of Technology Management (Awaiting for Scopus Indexed Publications)
  40. AI-Based Network Traffic Prioritization for Latency-Sensitive Applications in 6G Networks, 2024 2nd International Conference on IoT, Communication & Automation Technology (ICICAT), dated on 23-24 November 2024, ISBN: 979-8-3303-6810-9/24, DOI: 10.1109/ICICAT62666.2024.10922974 , Date Added to IEEE Xplore: 20 March 2025 Publisher: IEEE (Scopus Indexed)

## PATENT

1. Title of Invention: Intelligent Shoe for Assisting Blind People, the patent office Journal No.

- 23/2018 dated June 8, 2018, Application No.201841020233A.
2. Title of Invention: An Efficient MRF Models for Detection of Brain Abnormality Based on MR Images dated On 11.12.2020, Application No.202041052252
  3. Title of Invention: A Machine Learning Based Bandwidth monitoring and notification system for ensuring effective and quality service of telecom operator, dated on 14.01.2022, Application No.: 202241000029
  4. Title of Invention: Water Body Cleaning System, dated on 12.08.2023, Application No.: 202241070698
  5. Title of Invention: Adaptive Self-Evolving AI Framework for Real-Time Dynamic Data Integration and Autonomous Optimization, dated on 09.08.2024, Application No.: 202441067793
  6. Title of Invention: Task Aware Meta-Learning Framework for Dynamic Optimization of Predictive Models on Non-Stationary C, dated on 17.10.2025, Application No.: 202541087817

### Awards/Recognition

- Editorial Board Member – Consulting Editor, Innovative Scientific Research Professional Malaysia, Kuala Lumpur. 2019
- Award of Excellence in Research, Novel Research Academy, India – December 2021.
- Data Science domain for Computer Science in SWAYAM-NPTEL Faculty Domain Certification, Completed in July - October 2024
- NPTEL Star Believer (NPTELSS1240100954) awarded in Jan–Apr 2024
- NPTEL Discipline Star (NPTELSS2240105995) awarded in Jul–Dec 2024
- NPTEL Domain Scholar (NPTELDS24200000884) awarded in Jul–Dec 2024
- NPTEL Motivated Learner (NPTELSS1250103125) awarded in Jan–Apr 2025

### NPTEL Certificate Obtained

S. No	Name of the Course	Grade Obtained
1	AI: Search Methods for Problem Solving-12weeks	Elite (Jul–Dec 2025)
2	Affective Computing-12 Weeks	Elite + Silver (Jan–Apr 2025)
3	Natural Language Processing-12 Weeks	Elite (Jan–Apr 2025)
4	Advanced R for Business Analytics -12 Weeks	Elite (Jul–Dec 2024)
5	Learning Analytics Tools – 12 Weeks	Elite + Silver (Jul–Dec 2024)
6	Intro to Machine Learning (8 Weeks) – IITKGP	Elite + Silver (Jul–Dec 2024)
7	Programming Data Structures and Algorithms using Python-8 Weeks	Elite (Jul–Dec 2024)
8	Data Analytics with Python - 12 Weeks	Elite (Jan–Apr 2024)
9	AI: Constraint Satisfaction – 8 Weeks	Elite (Jan–Apr 2024)
10	Probability for Computer Science– 8 Weeks	Jan–Apr 2024
11	Reinforcement Learning- 12 Weeks	Jan–Apr 2024
12	Python for Data Science - 4 Weeks	Elite (Jul–Dec 2023)
13	Compiler Design- 12 Weeks	Elite +Jan–Apr 2019)
14	Academic Writing- 15 Weeks (UGC MOOC)	Gold+ Jul–Oct 2019
15	Blockchain Architecture Design and Use Cases-12 Weeks	Jul–Oct 2018 + FDP

### Professional Membership

1. International Association of Engineering (IAENG) - 142162
2. Indian Society for Technical Education (ISTE) – LM124919
3. Computer Science Teachers Association (CSTA) – 983457935
4. National Institute for Technical Training & Skill Development (NITTSD) – 02933
5. Society of Digital Information and Wireless Communications (SDIWC) – 30047

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