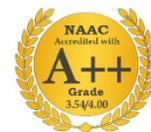




SETHU INSTITUTE OF TECHNOLOGY

(An Autonomous Institution| Accredited with 'A++' Grade by NAAC)

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<u>Department of Computer Science and Engineering</u>				
Name	Dr.M.MATHINA KANI			
Date of Birth	18.02.1980			
Unique ID	1-422799621, FD2007			
Educational Qualifications	B.E.,M.E.,Ph.D			
Designation	Associate Professor			
EmailID	mmathinakani@sethu.ac.in			
AlternateEmail ID	mohamed.mathinakani@gmail.com			
Experience	Industry	Teaching	Other s	Total
	Nil	23 Years	-	23 Years
Date of Joining the Institution	02.03.2009			
Area of Specialization	Medical Image Processing, Machine Learning, Deep Learning and Artificial Intelligence			
Courses taught	B.E(CSE) - 23 Years M.E(CSE) - 16 Years			
Research Focus	Medical Image Processing, Deep Learning , Machine Learning, Artificial Intelligence and IoT			
Research guidance (Number of Scholars)	PG-16 Completed			
Subject Competency	Theory of Computation, Artificial Intelligence, Machine Learning Techniques, Deep Learning Techniques, Image Processing, Computer Graphics, Data structures, Algorithm Analysis, Data Mining			
No. of papers published	National Journals	International Journals	Conferences	
	2	7	27	
PG Specialization	Computer Science and Engineering			
Ph.D.Specialization	Information and Communication Engineering			
Projects Carried out	1			
Patents (Filed & Granted)	1			
Technology Transfer	1			
No. of Books published with details (Name of the book, Publisher with ISBN, year of publication, etc.)	...			



AcademicCredentials

Level	Degree	Specialization	University	Year of Completion
UG	B.E	Computer Science and Engineering	Manonmanium Sundranar University, Thirunelveli	2001
PG	M.E	Computer Science and Engineering	Anna University, Chennai	2005
Ph.D.	Ph.D	Information and Communication Engineering	Anna University, Chennai	2025

Details of Journal Publication:

1. **M.MathinaKani**, Duraipovendran, “Efficient evaluation of path queries on Dynamic Route Collections”, International journal of Advanced Information Science and Technology,ISSN:2319; 2682, vol.12,no.12,April 2013.(Impact Factor : 3.564).
2. **M.MathinaKani**,R.Nithyarani, “Software Fault Prediction Models Using Augmented Bayesian Network Classifiers”, Indian Journal of Communications , Technology and Electronics (IJCTE), 2014, Volume 2, No.2,pp.no 69-74.
3. **M.MathinaKani**,J.Poulin, “Preserving the Privacy on Social Networks by Clustering Based Anonymization”, International Journal of Advanced Research in Computer Science and Technology, January - March 2014, ISSN: 2347-8446(Online) , ISSN:2347-9817(Print), Volume 2,Issue Special 1.(Impact Factor : 0.889, No. of Citation: 2).
4. **M.MathinaKani**,Haritha, “A New Visual Cryptography Technique for Color Images”, International Journal for Trends in Engineering & Technology, Vol 4, Issue 2, P006,April 2015.(Impact Factor : 0.998)
5. **M.Mathina Knai**,Sangeetha,”SEGMENTATION OF BRAIN TUMOR MRI IMAGES USING DTCWT”,IJESC INTERNATIONAL JOURNAL OF ENGINEERING SCIENCE AND COMPUTING, ISSN 2250-1371,Volume 6, Issue 6,June 2016.
6. **M.Mathina Kani**,Nandyni Devi,”Dermoscopy Image Classification using Different Color Constancy Algorithms”,International Journal of Engineering

7. C.CallinsChristiyana,**M.Mathina kani**,M.Poomani@Punitha, K.Priyadharsini , “Color-Textured Feature Based Image Retrieval Using Local Binary Pattern with Hyper _Plane Thresholding”, *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*,vol.8,no.8,pp.912-918,June2019.<https://www.ijitee.org/wp-content/uploads/papers/v8i8/G5517058719.pdf>,Scopus.
8. Mohamed Ali Jinna **Mathina Kani**, **Meenakshi Sundaram Parvathy**, Samsammal Maajitha Banu and Mohamed Saleem Abdul Kareem, “ Classification of skin lesion images using modified Inception V3 model with transfer learning and augmentation techniques”, *Journal of Intelligent & Fuzzy Systems*,vol.44, no.3, pp. 4627–4641, January 2023,[DOI:10.3233/JIFS-221386](https://doi.org/10.3233/JIFS-221386), (**Published by IOS Press**) (**Impact factor 1.737**) (Q2) **Science Citation Index Expanded**.
9. R.Mahalakshmi, M.MathinaKani, R.Nandhini, C.Karthiga, “ Diagnosing Medicinal Plants and their Fungal Diseases Using Deep Learning Models”, *International Journal of Scientific Reserch Engineering and Management*, vol 08, no 04, ISSN: 2582-3930, DOI: 10.55041/ IJSREM30517, April - 2024 SJIF Rating: 8.448.

Details of Conference attended:

1. **Ms.M.MathinaKani**, DuraiPoovendiran, “Efficient Evaluation of Path Queries on Dynamic Route Collections”,Paper presented in the National Conference on Recent Computing and Communication Technologies at St.Michael College of Engineering & Technology, 12th April 2013.
2. **Ms.M.MathinaKani**, T.Archana, “Transformation of Image by Spatiogram Technique in Motion Detection”, Paper presented in the National Conference on Recent Trends in Computing , Communication & Technologies at P.S.R Engineering College, 19th April 2013.
3. **Ms.M.MathinaKani**,R.Nithya Rani, “Software fault prediction models using augmented Bayesian network classifiers”, Paper presented in the International conference on “Engineering & Applies sciences”, (5th & 6th March 2014) at S.R.I College of Engineering and Technology.

4. **Ms.M.MathinaKani**,J.Poulin , “Preserving the Privacy on Social Networks by Clustering Based Anonymization”, Paper presented in the International Conference on Hi-Tech Trends in Emerging Computational Technologies,20 & 21st Feb 2014 at Sethu Institute of Technology.
5. **Ms.M.MathinaKani**,J.Poulin, “Anonymization of Social Networks for Privacy Preservation”, Paper presented in the National Conference on “Computational intelligence and High performance computing”, (12th & 13th February 2014) at SRM University.
6. **Ms.M.MathinaKani**, Ms.Haritha, “A New Visual Cryptography Technique for color images”, Paper presented in the International conference on Advance Research In Technology and Engineering, 31st March 2015 at Sri Ranganathar Institute of Engineering and Technology.
7. **Ms.M.MathinaKani**,TJayaprapha, “Secure Delegation using key aggregate cryptosystem”, Paper presented in the International Conference on Emerging trends in Engineering and Technology, 13th& 14th April 2015 at PandianSarawathyYadav Engineering College.
8. **M.MathinaKani**, Sangeetha,“Segmentation of Brain Tumor MRI Images Using DCWT”, International Conference On Recent Trends In Electronics ,Communication And Computation Technologies(ICRTCCT'16), Sri Ramanathan Engineering College, Tirupur, 06.03.2016 and 07.03.2016
9. **M.MathinaKani**, Nandyni Devi,“Dermoscopy Image Classification Using Color Contancy”, UGC Sponsored Two day National Conference on Current Research Advances in Computer Science,Kakatiya University, Warangal, Telangana, 17.03.2017,18.03.2017.
10. D.Vijayashanthi, **M.MathinaKani**, M.Parvathy, M.Abdul Kareem, ' Quantification of epicardial and Thoracic Adipose Tissue Using Krill Herd Optimized CNN', in the proceeding of **Seventh National Conference on Hi-Tech Trends in engineering Computational Technologies”-SITCON 2019** held on 22.03.19 at Sethu Institute of Technology.
11. **M.MathinaKani**, M.Parvathy, K.G.Karthik ,R.Muthu raja, R.S.Logeswaran, “ Image Enhancement in Microscopy Images For Early Detection of Skin Cancer”,in the proceeding of 7th National Conference on ‘Hi-tech Trends in Emerging computational Technologies” ,SITCON 2019 held on 22.03.19 at Sethu Institute of Technology.

12. C.CallinsChristiyana, **M.Mathinakani**, S.Gomathi, “Color-Textured Feature Based Image Retrieval Using Local Binary Pattern with Hyper _Plane Thresholding” ,in the proceeding of Seventh National Conference on Hi-Tech Trends in engineering Computational Technologies”-SITCON 2019 held on 22.03.19 at Sethu Institute of Technology.
13. Suresh kannan S, Stephen A, **Mathina Kani M**, Parvathy M, Abdul Kareem.M ,” Pneumonia Detection Using CNN based Feature Extraction “, in 8th National Conference vSITCON 2020 organized by Department of CSE, held on 04.09.2020 at Sethu Institute of Technology.
14. Sri Ganesh, Subhash, Vevekanandhan, **M.Mathina Kani** , “ Skin Cancer Image Classification Using Convolutional Neural Network “, in 8th National Conference vSITCON 2020 organized by Department of CSE, held on 04.09.2020 at Sethu Institute of Technology.
15. Tamilarasi T, Swetha J, Sujitha M, **Mathina Kani** ,” Detection of Diabetic Retinopathy Using Convolutional Neural Network “,in 8th National Conference vSITCON 2020 organized by Department of CSE, held on 04.09.2020 at Sethu Institute of Technology.
16. **M.Mathinakani**, F.Thahir Hussain,T. Sadiq Hussain, R.Vignesh, “ Blood Group Detection Using, Information and Computing Technologies RIICT2022, 22.07.2022 & 23.07.22 at Sethu Institute of Technology,India.
17. U. Rama, B. Sneha,S.Sherinshifaya, **M.Mathina Kani**, M.Parvathy, T. Tamilarasi, Diagnosis Of Skin Cancer Using Machine Learning, Ninth National Conference on vSITCON 2022, 27.04.2022, at Sethu Institute of Technology,India.
18. RajaGopikasri , R.Roshini, **M.Mathina Kani**, “College Enquiry Chat Bot”, International Conference on Recent Innovations in Information and Computing Technologies RIICT2022, 22.07.2022 & 23.07.22 at Sethu Institute of Technology,India.
19. **M Mathina Kani**, Sakthivel B, Saravanan M , Sanjay Kumar S, “Concrete Wall Defect Identification Using Image Analysis”, International Conference on Recent Innovations in Information and Computing Technologies RIICT2022, 22.07.2022 & 23.07.22 at Sethu Institute of Technology,India.
20. Suriya Dileepan, I. Syed Gulam Musthafa , A. Vignesh Kumar, Dr. E. Sivajothi, **M.Mathina Kani**, “Optimal Framework for the Detection of the Credit Card Fraud System” , International Conference on Recent Innovations in Information and

Computing Technologies RIICT2022, 22.07.2022 & 23.07.22 at Sethu Institute of Technology,India.

21. **M.Mathina Kani**, K. Vignesh, K. Vignesh Kumar, R.Vishwa Raj, R. Vishnu Siddhan, “Theft Detection System Using Gsm And Gps Module”, 10th National Conference on Hi- Tech trends in Emerging Computational Technologies, volume 1, held on 13th April 2023 at Sethu Institute of Technology, Kariapatti, India.
22. **M.Mathina Kani**, S.Pavithra, M.Pooja and S.Sabura Aslina, “Automatic Valve for Intravenous Fluid Bottle”, 10th National Conference on Hi- Tech trends in Emerging Computational Technologies, volume 1, held on 13th April 2023 at Sethu Institute of Technology, Kariapatti, India.
23. Dr.M.Parvathy, Mrs.**M.MathinaKani** ,Diviya M.A, “ Skin Cancer Lesion Detection By Image Segmentation Using Deep Learning Techniques”, 10th National Conference on Hi- Tech trends in Emerging Computational Technologies, volume 1, held on 13th April 2023 at Sethu Institute of Technology, Kariapatti, India.
24. Rooba M, Ruthra Priya C, ShanmughaPriya R, **Mrs. Mathinakani**,” Sensory Detection Of Hazardous Gases In Poultry farm”, International Conference on Recent Innovations in Information and Computing Technologies (RIICT’24),April 5, 2024, Sethu Institute of Tecgnology, Kariapatti.
25. Sobana Devi V. S, Sowmiya. S, Ms. **M. Mathina Kani**,” IOT-Based Precision Agriculture For Enhanced Crop Management And Quality Grading”, International Conference on Recent Innovations in Information and Computing Technologies (RIICT’24),April 5, 2024, Sethu Institute of Tecgnology, Kariapatti.
26. **M.Mathinakani**, S.Mahalakshmi,M.Shanmugavel,M.Abdulkareem, “Identification of Medical Plants and related Fungal Diseases based on Deep Learning Model”, 2025 6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI), Goathgaun, Nepal, 2025, pp. 162-167, IEEE Conference on 7 & 8th Jan’25. doi: 10.1109/ICMCSI64620.2025.10883368.
27. M.Vijayakumar, S.Selvi,M.Mathina Kani, “ AI-Based Virtual Mouse and Keyboard Abate the Spread of Covid-19”, TNSCST Sponsored Two Day International Conference on “Advancing Technologies and Innovative Breakthroughs in Computing and Communication” at Kamaraj College of Engineering and Technology held from 05.03.2025 to 06.03.2025.

Details of Patents Filed and Granted:

1. M.Mathina Kani,et al, “ AI-Driven Security Monitoring for Hybrid Cloud Environments” On 25.11.2024, 2024410918996A.

Details of Sponsorship Project:

1. M.Mathina Kani, et al , “ IoT and AI based Smart Shopping Trolley”, MSME 2.0, Granted amount 5,00,000 on 08.08.2023 and completed on 08.01.2025.

Expert Lecture Delivered:

1. Delivered a lecture in the topic “Push down Automata-Theory of Computation” for Anna University sponsored Seven Days FDTP on “CS2303-Theory of Computation”12th to 18th June 2014.