

Dr. M.S.Antony Vigil, M.E., Ph.D.,
Assistant Professor (Senior Grade),
Department of CSE, CET, SRMIST,
Ramapuram Campus, Chennai.

Mail id: antonym@srmist.edu.in



Dr.M.S.Antony Vigil is working as Assistant Professor (Senior Grade) in the Department of Computer Science and Engineering at SRMIST, Ramapuram campus. She holds Ph. D degree in the field of Image Processing from SRM Institute of Science and Technology since 2022. She has 14 years of teaching and research experience. She has completed many certified courses from Coursera and NPTEL. She has published research papers in National / International Journals and presented many research works in International / National Conferences. She has reviewed many textbooks, journal and conference manuscripts. She has registered patents on Artificial Intelligence and Internet of Things applications.

Area of Research:

Image Processing, Artificial Intelligence, Internet of Things

Selected Publications:

- M.S.Antony Vigil, V.Subbiah Bharathi (2021) “Detection of Periodontal Bone Loss in Mandibular area from Dental Panoramic Radiograph using Image Processing Techniques”, Concurrency and Computation-Practice & Experience, ISSN No: 1532-0634, Vol 33, Issue 17, Page No: 1-10, <https://doi.org/10.1002/cpe.6323>.
- Antony Vigil, Subbiah Bharathi (2021) “Diagnosis of Pulpitis from Dental Panoramic Radiograph Using Histogram of Gradients with Discrete Wavelet Transform and Multilevel Neural Network Techniques” Traitement du Signal, ISSN No:1958-5608, Vol 38, Issue 5,Page No: 1549-1555, <https://doi.org/10.18280/ts.380532>.
- M.S.Antony Vigil, V. Subbiah Bharathi (2022)“ Classification of Periodontitis Stages in Mandibular Area from Dental Panoramic Radiograph using Adaptive Center Line-Distance Based Image Processing Approach” Journal of Ambient Intelligence and Humanized Computing, ISSN No:1868-5137, Vol 14, Page No: 8859-8869 <https://doi.org/10.1007/s12652-021-03634-7>
- M.S.Antony Vigil, Logitha Anandan,Harika K and Avula Hanumayamma,”A Dynamic pricing system for E-scooter based on demand prediction using Neural network”, International Journal of Future Generation Communication and Networking, ISSN No:2233-7857, June 2021, Volume 14,No.1, Page No:2207-2213, SJR:0.153

- M.S.Antony Vigil, Aashna Chib, Ayushi Vashisth, Tanisha Pattnaik, “ Detectiono of Cloud shadows using deep CNN utilizing spatial and spectral features of landset imagery”, Adalya Journal, ISSN No: 1301-2746, May 2021, Volume 10, Issue 5, Page No: 65-74, SNIP:0.357
- M.S.Antony Vigil, Manoj Raj S R, Shankara Prasad, Venkata Jagadeesh Reddy,” Road sign alert and drivers drowsiness alert using Convolution Neural Network”, Design Engineering, ISSN No: 0011-9342, December 2021, Issue:9, Page No:1602-1609, SNIP:11.486.
- M.S.Antony Vigil, Akshant Soni, Sachin Singh Kapkoti, Shubham Sankar, “A Dynamic, Novel Unified methodology for predicting cloud workload on cloud computing”, Annals of the Romanian Society for Cell Biology, ISSN.No:1583-6258, May 2021, Volume 25, Issue 5, Page No.4857-4863, Indexed: Scopus, Impact Factor:0.486
- M.S.Antony Vigil, Rishabh Jain, Abhinav Chandra, Tanmay Agarwal,” A Novel Data-driven optimal methodology for detecting ship from Sar images based on Artificial Intelligence”, Indian Journal of Artificial Intelligence and Neural Networking, ISSN No:2582-7626, June 2021, Volume 1, Issue 3, Page No:17-22.
- M.S.Antony Vigil, Nishad Sandilya, “Estimation of Body Fat Percentage Using Neural Networks, Tensorflow and OpenCV”, Journal of Research on the Lepidoptera, ISSN No:2156-5457, June 2020, Volume 51(2), Page No:696-709, Indexed: Web of Science, Scopus. SNIP:0.182.
- M.S.Antony Vigil, W. Abelwin Pereira, Divya, Anto Levin, “Smart Drip Irrigation and Real Time Monitoring System Using IOT and Data Encryption Algorithm”, IIOAB Journal, ISSN No: 0976-3104, June 2020, Volume 11(2), Page No: 69-73, Indexed: Web of Science (ESCI), SNIP: 0.203
- M.S.Antony Vigil, Maneesh Pudhota, Sridhar Gunnam, Kaushik Kumar, Sri Ram Reddy, “Predicting CT Image from MRI Image using Convolution Neural Networks”, Adalya, ISSN No: 1301-2746, June 2020, Volume 9, Issue 6 , Page No. 180-185, Indexed: Web of Science. SNIP:0.357.
- Rishikesh Kumar, Dharmin Sodwadia, M.S.Antony Vigil, Sushmita Ghosh, “Increasing Efficiency and Prediction of Heart Disease Using Machine Learning Algorithms”, International Journal of Advanced Science and Technology, ISSN.No:2207-6360, March 2020, Volume 29, Issue 3, Page No.5985-5991, Indexed: Scopus, , Impact Factor:0.085.
- Balika J. Chelliah, M.S.Antony Vigil, M.S.Bennet Praba, “Node Clone Detection using a stable overlay network” , International Journal of Electrical and Computer Engineering , ISSN No: 2088-8708, February 2020, Volume 10, No.1, Page No. 316-322, Indexed: Scopus, SNIP 1.144.

- M.S.Antony Vigil, K.Vijay Sriram Charan,D.Sai Santosh,E.Bhargava Reddy, “Automatic Driver Drowsiness Detection and Accident System using Image Processing”, International Journal of Innovative Technology and Exploring Engineering, ISSN No: 2278-3075, October 2019, Volume 8,Issue 12, Page No.4614-4617,Indexed: Scopus, SNIP:0.055
- P.Manoj Prakash, Sreerag Premanathan, Shivamkumar Surwase, M.S.Antony Vigil,Shivam Bohare, “License plate detection and facial analysis using Tensorflow Deep Learning Algorithm”, Journal of Computational and Theoretical Nanoscience, ISSN:1546-1955, August 2019 , Volume 16 Page No:1-6,Indexed: Scopus,SNIP:0.177
- M.S.Antony Vigil, Prashant Kumar, Preetam Sarmah, Rushab Kumar Jha, Prashant Baheti, “Finger Vein Biometric Identification Using Convolution Neural Network and Electromyography”, International Journal of Engineering and Advanced Technology, ISSN:2249-8958, April 2019,Volume 8,Issue 4, Page No:1493-1497, Indexed:Scopus,SNIP:0.087
- M.S.Antony Vigil, D.Jayasyam Reddy, Venkata Siva Kumar, Sree Ram Pavan, ” An Approach of using rotating objects for automatic charging system of batteries”, International Journal of Pure and Applied Mathematics, ISSN:1314-3395,June 2018, Volume 119,No 15,Page No:407-411,Indexed:Scopus,SNIP:0.754
- Antony Vigil, Konduru Rajesh, Rishi Kabra, Balaji, Shivam Kumar, ” Medical Image Sensor Fusion and Segmentation using Dual Tree Complex Wavelet Transform Domains and Clusters”, International Journal of Pure and Applied Mathematics,ISSN:1314-3395, June 2018 , Volume 119,No 15,Page No:377-383, Indexed:Scopus, SNIP:0.754
- M.S.Antony Vigil, Nitisha K,Deepali Sikerwar, Muskan Joshi” A review on RC home automation using LDR and IR sensors”, International Journal of Pure and Applied Mathematics, ISSN:1314-3395, June 2018 , Volume 119,No 15,Page No:3555-3560, Indexed:Scopus, SNIP:0.754.
- Published a paper titled ” Safety System for Coal Mines using IOT and Wireless Networking” in the “International Journal for Scientific Research & Development” in Volume 6 Issue 8,October 2018.
- Published a paper titled ” Cognitive Intelligence System for Institutional Management using Speech Recognition” in the “Journal of Network Communications and Emerging Technologies” in Volume 8 Issue 4,April 2018.
- Published a paper titled ” Automatic Room Light Control System” in the “International Journal for Science and Advance Research in Technology” in Volume 4 Issue 4,April 2018.

- M.S.Antony Vigil,P.S.Meena Kumari,U.Soumiya,J.Abinaya, P.Bhargav Akash, ” A Robust Approach for Iris and Fingerprint Authentication” , Journal of Advanced Research in Dynamical and Control Systems,ISSN:1943-023X, July 2017 ,Special Issue-11,Page No:194-204, Indexed:Scopus, SNIP:0.273.
- M.S.Antony Vigil,Shivani Kumari, Sumi Mohan ” Zero Knowledge Based Multi Copy Routing Algorithm for Heterogeneous Mobile Social Networks”, Advances in Natural and Applied Sciences” ,ISSN: 1995-0772, June 2016 ,Special 10(9), Page No:287-293, Indexed:Scopus, SNIP:0.495.
- M.S.Antony Vigil,U.Soumiya,P.S.Meena Kumari, ” 5G Wireless Technologies in SDN Network to Avoid Traffic Signals”, Advances in Natural and Applied Sciences, ISSN: 1995-0772, June 2016 ,Special 10(9),Page No:277-286, Indexed:Scopus, SNIP:0.495
- M.S.Antony Vigil, Sameer Singh Rathor, Jithendra Singh,” Secure Binary Image Steganography using F5 algorithm based on Data Hiding and Diffusion Techniques”, International journal of control theory and applications, ISSN: 0974-5572, June 2016, Volume 9 Issue 10, Page No:4843-4857, Indexed:Scopus, SNIP:0.158
- Published a paper titled ” Pragmatic Steganalysis used for Large Scale Social Network industry with Enterprise Solution” in the “International Journal of Inventions in Computer Science and Engineering” in Volume 3 Issue 5,May 2016.
- M.S.Antony Vigil, S.Bagyalakshmi, R.Padmaja,” Securing Communication Over Co-Operative Remote Group In Manet”, International Journal Applied Engineering Research, ISSN: 0973-4562, Volume 10,Number 8(2015) , Page No:21443-21452, Indexed:Scopus,SNIP:0.681
- Published a paper titled ” Database intrusion Detection using Role Based Access Control System” in the “International Journal for Research in Applied Science & Engineering Technology” in Special Issue-1, October 2014.
- Published a paper titled “Segmentation of Noisy Images using Hidden Markov Gauss Mixture Models” in the “International Journal of Advanced Research in Computer Science and Software Engineering” in July 2014,Volume 4, Issue-7.

Patents:

- Published an Indian Patent titled “AI-Based Image Reconstruction for Low-Dose CT Scans” on 27/4/2022. Application Number:202321030483.
- Published an Indian Patent titled “Efficient Deep Image Compression System with Auto-Encoders for different Sub-band frequencies” on 25/11/2022. Application Number:202241065491.
- Published an Indian Patent titled “An Internet of Things-Based Agriculture Monitoring

- System-An Innovative Approach” on 8/4/2022. Application Number:202241015146 A.
- Published an Indian Patent titled “ID-Tracking: ID Tracking to 4-G, 5-G Mobile with Intelligent Security Using Deep, Machine Learning Programming” on 9/6/2020. Application Number: 202041024065.
- Published an Australian Patent titled “Automatic Attribute Differentiator and Controller for IOT Applications” on 26/8/2020. Application Number: 2020101612.

Achievements and Awards:

- Received “Best Paper Award” for the paper titled Crime Information Collection System using CHATBOT in the International Conference on Emerging Trends in Materials, Computing and Communication Technologies organized by Annai Vailankanni College of Engineering on 10th December 2021.
- Received “Lifetime Achievement Award” for the contribution in Innovative Research in the International Research Awards on Science,Health and Engineering SHEN Research Awards 2020 organized by ScienceFather, approved by Ministry of Corporate Affairs(MCA),Govt.of India.
- Received “Young Scientist Award” in the International Best Scientist awards held on 18th,19th January 2020, New Delhi organized by VGood Professional Association.
- Secured NPTEL Online Certification (Funded by the Ministry of HRD, Govt.of India) with “ELITE” for the Course “Outcome based pedagogic principles for effective teaching” in March 2022.
- Secured NPTEL Online Certification (Funded by the Ministry of HRD,Govt.of India) for the Course “Software Testing” in February 2020.
- Secured NPTEL Online Certification (Funded by the Ministry of HRD,Govt.of India) for the Course “Digital Image Processing” in December 2019.
- Secured NPTEL Online Certification (Funded by the Ministry of HRD, Govt.of India) with “ELITE” for the Course “Introduction to Research” in November 2016.
- Secured NPTEL Online Certification (Funded by the Ministry of HRD, Govt.of India) for the Course “Introduction to operating Systems” in November 2017
- Certified Internal Auditor ISO 9001:2015.
- Secured Third Rank in the Anna University Sixth Semester Bachelor of Engineering Examination.
- Secured School First in 10th and 12th Standard Board Examinations.

Invited Research Contribution:

- Reviewer of the Journal “Computer Applications in Engineering Education”, Wiley Publications (SCI Indexed - SNIP:1.280)
- Reviewer of the Journal “Concurrent Engineering : Research and Applications” , SAGE Publications (SCI Indexed- SNIP : 0.755)
- Reviewed a Text Book titled “Digital Image Processing”, Second Edition, S.Sridhar, Oxford University Press.

- Reviewer of the Journal “Informatics in Medicine Unlocked”, Elsevier Publications (Scopus Indexed-SNIP:1.559)
- Technical Expert for the Science Exhibition organized by Easwari Engineering College, Ramapuram on 23-10-2019.

Professional Bodies:

- Member of “International Computer Science and Engineering (ICSES)”, since 12/10/2019.
- Member of Indian Science Congress Association, Kolkata, India.
- Member of the “International Association of Engineering & Technology for skill Development”, since 22/9/2014

Google Scholar:

<https://scholar.google.com/citations?user=-fw6XosAAAAJ&hl=en>

LinkedIn:

<https://www.linkedin.com/in/dr-m-s-antony-vigil-57083311/>