Dr.T.MANIKANDAN

RESEARCH PUBLICATIONS

INTERNATIONAL JOURNALS:

1. **T. Manikandan**, V. Nandalal, S. Joshua Kumaresan, J.L. Mazher Iqbal and A. Muruganandham, "Synthesis and characterisation of magnetic nanoparticles for lung cancer detection and therapy", International journal of psychosocial rehabilitation, ISSN: 1475-7192, vol. 24(5), pp. 2730-2740, 2020. DOI: 10.37200/I JPR/V24I5/PR201976 (Indexed in Scopus).

2. **T. Manikandan**, J.L. Mazher Iqbal, V. Nandalal, A. Muruganandham and S. Joshua Kumaresan, "An automated computer-aided diagnosis system for malignant tumor localization from lung CT images for surgical planning", International journal of psychosocial rehabilitation, ISSN: 1475-7192, vol. 24(5), pp. 2725-2729, 2020. DOI: 10.37200/I JPR/V24I5/PR201975 (Indexed in Scopus).

3. **T. Manikandan**, D. Tamil Selvan, R. Vaidhyanathan, B. Vigneshvaran and V. Nandalal, "Home groceries management system using IOT", International journal of psychosocial rehabilitation, ISSN: 1475-7192, vol. 24(5), pp. 2731-2746, 2020. DOI: 10.37200/I JPR/V24I5/PR201977 (Indexed in Scopus).

4. **T. Manikandan**, V. Nandalal, J.L. Mazher Iqbal, S. Joshua Kumaresan and S. Karthikeyan, "Protection of plantation from wild animals using wireless sensor network", International journal of psychosocial rehabilitation, ISSN: 1475-7192, vol. 24(5), pp. 2719-2723, 2020. DOI: 10.37200/I JPR/V24I5/PR201974 (Indexed in Scopus).

5. **T. Manikandan**, J.S. Jayashwanth, S. Harish and K.N. Harshith Sivatej, "Self-driving car", International journal of psychosocial rehabilitation, ISSN: 1475-7192, vol. 24(5), pp. 380-388, 2020. DOI: 10.37200/IJPR/V24I5/PR201704 (Indexed in Scopus).

6. Gopalakrishnan G, Jabin Alfy T, Aadhithya V, **Manikandan T**, Senthil kumar T.K, "Smart Attendance Management System using Face Recognition", International Journal of Psychosocial Rehabilitation, ISSN: 1475-7192, Vol. 24, Issue 02, pp. 5226-5231, March 2020. DOI: 10.37200/IJPR/V24I2/PR2020949 (Indexed in Scopus).

7. Nandalal.V, Sathishkumar.N, **Manikandan.T**, Anandkumar.V and Indhumathi.G, "Design of a rectangular microstrip patch antenna with edge feeding technique for marine applications", International Journal of Oceans and Oceanography, ISSN 0973-2667, vol. 14 (1), pp. 101-108, 2020 (Indexed in web of science).

8. **Manikandan.T**, Padmalaya.G, Mahalakshmi.S, Nivethitha.A.S, Pavithran.V, Perumal.S, Sreeja.B.S and Senthil kumar.P, "Facile hydrothermal bio-synthesis of Cellulose Acetate templated CuS nanorods like fibres: Antibacterial, Cytotoxicity effects and DNA cleavage properties against A549 lung cancer cells", IET Nanobiotechnology, vol. 14(1), pp. 47-52, ISSN 1751-875X, 2019, DOI: 10.1049/iet-nbt.2019.0193, Impact factor: 1.925 (Indexed in SCI-E, Pubmed & Scopus).

9. Saranya.J, Sreeja.B.S, Padmalaya.G, Radha.S and **Manikandan.T**, "Ultrasonic Assisted Cerium Oxide/Graphene Oxide Hybrid: Preparation, Anti-proliferative, Apoptotic Induction and G2/M Cell Cycle Arrest in HeLa Cell Lines", Journal of inorganic and organometallic polymers and materials, Vol. 30, Issue. 7, pp. 2666-2676, 2020, DOI: https://doi.org/10.1007/s10904-019-01403-w (Indexed in SCI-E, Pubmed & Scopus).

10. Srilakshmi R and **Manikandan T**, "Design and Development of Filtering Antenna for S-Band Applications with high out-of-band rejection" International journal of innovative technology and exploring Engineering, ISSN: 2278-3075, pp. 180-188, Vol. 9 Issue. 1S, 2019, DOI: 10.35940/ijitee.A1038.1191S19 (Indexed in Scopus).

11. **Manikandan T**, Devi B and Helanvidhya T, " A Computer-Aided Diagnosis System for Lung Cancer Detection with Automatic Region Growing, Multistage Feature Selection and Neural Network Classifier", International journal of innovative technology and exploring Engineering, ISSN: 2278-3075, pp. 409-413, Vol. 9 Issue. 1S, 2019, DOI: 10.35940/ijitee.A1081.1191S19 (Indexed in Scopus).

12. **Manikandan T**, Satheesh Kumar S, Joshua Kumaresan S, Shobana Priya M S and Priyanka R , "Glaucoma Detection in Retinal Images using Automatic Thresholding and Marker–Controlled Watershed Transformation", International journal of innovative technology and exploring Engineering, ISSN: 2278-3075, pp. 210-213, Vol. 9 Issue. 1S, 2019, DOI: 10.35940/ijitee.A1043.1191S19 (Indexed in Scopus).

13. Kalaiarasan K, **Manikandan T**, Nandalal V, Anand Kumar V and Shobana Priya M S, "Design and Analysis of Linear Tapered Slot Antenna for Super High Frequency Applications" , International journal of innovative technology and exploring Engineering, ISSN: 2278-3075, pp. 272-275, Vol. 9 Issue. 1S, 2019, DOI: 10.35940/ijitee.A1055.1191S19 (Indexed in Scopus).

14. Joshua Kumaresan.S, Nethaji Subash Chandra.R, **Manikandan.T** and Priyanka.R and Muruganandham.A, "IoT based Fragrance Tester", International journal of innovative technology and exploring Engineering, ISSN: 2278-3075, pp. 272-275, Vol. 9 Issue. 1S, 2019, DOI: 10.35940/ijitee.A1057.1191S19 (Indexed in Scopus).

15. R. Priyanka, **T. Manikandan**, S. Joshua kumaresan, A. Muruganandham and S. Karthik, "Miniaturized Microstrip Patch Antenna for Microwave Imaging Application", International journal of innovative technology and exploring Engineering, ISSN: 2278-3075, pp. 214-217, Vol. 9 Issue. 1S, 2019, DOI: 10.35940/ijitee.A1044.1191S19 (Indexed in Scopus).

16. Shobana Priya M S, Priyanka R, **Manikandan T**, Joshua Kumaresan S and Satheesh Kumar S, "Implementation of Low Power and Area Efficient Vedic Multiplier", International journal of innovative technology and exploring Engineering, ISSN: 2278-3075, pp. 206-209, Vol. 9 Issue. 1S, 2019, DOI: 10.35940/ijitee.A1042.1191S19 (Indexed in Scopus).

17. Shobana Priya M S, Priyanka R, **Manikandan T**, Joshua Kumaresan S and Satheeshkumar. S, "Implementation of VLSI Architecture for Montgomery Modular Multiplier", International journal of innovative technology and exploring Engineering, ISSN: 2278-3075, pp. 218-221, Vol. 9 Issue. 1S, 2019, DOI: 10.35940/ij

18. K.Premkumar, **T.Manikandan**, V.Sapthagirivasan and V.Nandalal, "A singular value decomposition based low-computational zero-watermark algorithm for digital right management', International Journal of Engineering and Advanced Technology (IJEAT), ISSN: 2249 – 8958, Volume-8, Issue-6S, pp. 51-56, 2019. (Indexed in Scopus)

19. V. Nandalal, M.S. Sumalatha, V. Anand Kumar and **T. Manikandan**, "Better security aware D2D transmission protocol with optimum relay assignment algorithm (ORAA)", in International journal of Engineering and Advanced Technology, ISSN: 2249-8958, Volume-8 Issue-6S, pp. 172-176, 2019. DOI:10.35940/ijeat.F1035.0886S19 (Indexed in Scopus).

20. K. Stella, **T. Manikandan** and E.N. Ganesh, 'Detection of optimized Intermediate Sensor Nodes using Carrier Sensing Power and Genus Factor for Energy Efficient Multipath Routing Protocol in Wireless Sensor Networks', Sensor Letters, vol. 17, pp. 1-6, P-ISSN: 1546-198X, E-ISSN: 1546-1971, 2019 ((Indexed in Scopus).

21. Kouser.R, Manikandan.T and Kumar.V, "Heart disease prediction system using artificial neural network, radial basis function and case based reasoning", Journal of computational and theoretical nanoscience, vol. 15, pp. 2810-2817, 2018.

22. S. Karthikeyan and T. **Manikandan**, 'Brain Tumor Detection Via EEG Signals', Indian Journal of Applied Research, Vol. 9, Issue.1, pp. 213-215, ISSN: 2249-555X.

23. R. Srilakshmi and **T. Manikandan**, 'Performance Comparison of S-Band Antenna with Series fed and Corporate fed Microstrip Array', International Journal of Engineering & Technology (UAE), Vol. 7, pp. 1036-1039, *ISSN*: 2227-524X, 2018 (A Scopus indexed journal).

24. **T. Manikandan**, "Green synthesis of nanomaterials for early lung cancer detection", in Journal of Cancer Science and Therapeutics, Vol. 1, pp. 1, August 2018.

25. K. Stella, E.N. Ganesh and **T. Manikandan,** 'Experimental analysis of fault tolerant authentication in non-invasive epidermal glucose sensor using SQEZLMRP based information transmission in wireless sensor networks', Sensor Letters, vol. 16, no.3, pp. 224-233, P-ISSN: 1546-198X, E-ISSN: 1546-1971, 2018 (Indexed in Scopus)

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27. T. Sujeetha Devi and **T. Manikandan**, "Antithefting of Two Wheelers using RF based Accelerometer", in Journal of Innovation in Science and Engineering Research, vol. 2 (1), pp. 43-53, 2018.

28. **T. Manikandan**, M.A Mohammed Aejaz, N.M Nithin Krishna, A.P Mohan Kumar and R. Manigandan, 'RFID based Advanced Shopping Trolley for Super Market', Journal of Chemical and Pharmaceutical Sciences, Special Issue 8, pp 225-230, ISSN: 0974-2115, 2017 (Indexed in Scopus).

29. **T. Manikandan**, N. Bharathi, M. Sathish and V. Asokan, 'Hybrid Neuro-Fuzzy System for Prediction of Lung Diseases Based on the Observed Symptom Values", Journal of Chemical and Pharmaceutical Sciences, Special Issue 8, pp 69-76, ISSN: 0974-2115, 2017. (Indexed in Scopus).

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40. S. Seetharam, M. Suresh Kumar, Sai Saravan Harish and **T. Manikandan**, 'Registration Plate Recognition System,' in International Journal of Scientific Engineering and Research, ISSN: 2347-3878vol. 2, no. 3, pp. 161-164, 2014.

41. S. Bibin and **T. Manikandan**, 'Blood vessel detection from fundus image for diabetic retinopathy patients using SVM,' in International Journal of Engineering and Technology, E-ISSN: 2278-018, vol. 3, no. 5, pp. 1248-1253, 2014.

42. N. Mahesh Kumar and **T. Manikandan**, 'Non blind watermarking using contourlet transform,' in Indian Journal of Computer Science and Engineering, E-ISSN: 0976-5166, P-ISSN: 2231-3850, vol.2, no. 1, pp. 31-38, 2011.

43. **T. Manikandan** and N. Bharathi, 'Lobar fissure extraction in isotropic CT lung images-An application to cancer identification,' in International Journal of Computer Applications, ISSN: 0975-8887, vol. 36, no. 6, pp. 17-21, 2011.

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44. **Manikandan. T**, Kanagavalli. R, Kavitha. B, Mutharasi. J, Sathish.M, " Design and development of Patch Antenna Array with Band-pass Filter for ISM Band Applications", Proceedings of the 3rd International Conference on Electronics Communication and Aerospace Technology, ICECA 2019, ISBN: 978-1-7281-0167-5, pp.888-891, 2019. DOI: 10.1109/ICECA.2019.8822132. (Indexed in Scopus).

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46. Ruhin kouser and **Manikandan.T**, "Resource Scheduling in Vehicular Cloud Network: A Survey", Proceedings of the 3rd International Conference on Electronics Communication and Aerospace Technology, ICECA 2019, ISBN: 978-1-7281-0167-5, pp. 621-627, 2019. DOI: 10.1109/ICECA.2019.8822222. (Indexed in Scopus).

47. V. Nandalal, V. Anand Kumar, M.S. Sumalatha and **T. Manikandan**, "Performance Evolution of Reconfigurable Antenna Using Contact and Non-Contact Feeding Technique", Proceedings of the 3rd International Conference on Electronics Communication and Aerospace Technology, ICECA 2019, ISBN: 978-1-7281-0167-5, pp. 952-954, 2019. DOI: 10.1109/ICECA.2019.8821933. (Indexed in Scopus).

48. Sathyapriya A., Sathiya K., Sneha T.M., Rohit Raja D., Manikandan T, 'Automatic Speed Control System in Vehicles Using VANET', Advances in Intelligent Systems

and Computing, vol 1163, pp. 719-726, Springer, Singapore, ISBN No. 978-981-15-5028-7. DoI: https://doi.org/10.1007/978-981-15-5029-4_60. (A scopus indexed conference & Springer book series).

49. Mazher Iqbal J.L., Manikandan T, 'FPGA-Based Reconfigurable Architectures for DSP Computations', Advances in Intelligent Systems and Computing, vol 1163, pp. 587-594, Springer, Singapore, ISBN No. 978-981-15-5028-7. DoI: https://doi.org/10.1007/978-981-15-5029-4_48. (A scopus indexed conference & Springer book series).

50. Venkataramanan V., Manikandan T., Sathish M., Srilakshmi R., Kalaiarasan K, 'Design and Development of a New Microstrip Patch Antenna for ISM Band Applications', Advances in Intelligent Systems and Computing, vol 1163, pp. 727-736, Springer, Singapore, ISBN No. 978-981-15-5028-7. DoI: https://doi.org/10.1007/978-981-15-5029-4_61. (A scopus indexed conference & Springer book series).

51. S. Sudhasree, K. Karthik, **T. Manikandan** and G.T. Gokulrajan, " Smart ATM Security System using GSM, in International Conference on Research and Developments in Engineering and Technology (ICRDET-2018) at Chennai Gate Way Hotel, Koyambedu, Chennai, May 6, 2018.

52. V. Venkataramanan, B. Priya, **T. Manikandan** and G.T. Gokulrajan, "Fault Detection in Underground Cable using ARDUINO", in International Conference on Research and Developments in Engineering and Technology (ICRDET-2018) at Chennai Gate Way Hotel, Koyambedu, Chennai, May 6, 2018.

53. S. Asha, S. Richard Jebasingh, **T. Manikandan**, G.T. Gokulrajan, "An IoT Based LPG Monitoring and Level Prediction System using NODEM in International Conference on Research and Developments in Engineering and Technology (ICRDET-2018) at Chennai Gate Way Hotel, Koyambedu, Chennai, May 6, 2018.

54. S. Suganya and **T. Manikandan**, 'Lung Cancer Detection Using Neural Network Classifier,' International conference on Engineering Digital Green Era- EDGE 2016, Rajalakshmi Engineering College, March 17-19, 2016.

55. A. Carolin Sheshma and **T. Manikandan**, 'Optimum pre-processing technique for lung nodule segmentation in isotropic CT images,' International conference on Engineering Digital Green Era - EDGE 2016, March 17-19, 2016.

56. K.P Gopika and **T. Manikandan**, 'Three dimensional visualization and localization of cancerous lung tumor,' in International Conference on Current Innovations in Engineering and Technology, at hotel Nahar Manchester Inn, Coimbatore, April 19, 2015.

57. A. Gifty Albert and **T. Manikandan**, 'Lung cancer detection based on symptom values,' in International Conference on Innovative Trends in Computing and Technology at Sethu Institute of Technology, Viruthu Nagar, April 25-26, 2013.

58. E. Aswini, S. Divya, S. Kardheepan and **T. Manikandan**, 'Mathematical Morphology and bottom hat filtering approach for crack detection on relay surfaces,' proceeding of 2013 IEEE conference on "Smart Structures and Systems", ICSS 2013, pp. 108-113, 2013. DOI: 10.1109/ICSSS.2013.6623011.

59. K. Iyshwerya, B. Janani, S. Krithika and **T. Manikandan**, 'Defect detection algorithm for high speed inspection in machine vision, proceeding of 2013 IEEE conference on "Smart Structures and Systems", ICSS 2013, pp. 103-107, ISBN:978-1-4673-6243-6, 2013. DOI: 10.1109/ICSSS.2013.6623010.

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62. **T. Manikandan**, P. Rama Kotti Reddy and V. Sapthagirivasan, 'Extraction of lobar fissure in isotropic CT lung images to identify lung cancer by dual tree complex wavelet transform,' in International Conference on Advances and Emerging Trends in Computing and Technologies at SRM University, June 21-24, 2010.

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63. Presented paper titled 'Blood vessel detection from fundus image for diabetic retinopathy patients,' National Conference on Emerging Trends in Information and Communication Technologies at MAM college of Engineering, Trichi, 28th March 28, 2014.

64. Presented a paper titled 'Lung cancer detection based on modified C mean clustering and support vector machines,' National Conference on Electronics, Communication and Signal Processing at Rajiv Gandhi College of Engineering, 3rd April, 2013.

65. Presented a paper titled 'Lung cancer diagnosis system,' National Level Conference on Recent Trends in Information Technology at RMK college of Engineering & Technology, 20th February 2012.

66. Presented a paper titled 'Lung cancer detection using fuzzy clustering & Artificial neural networks,' National Conference on Computational Intelligence in Electrical and Electronics Engineering at Sathyabama University, 1st March, 2012.

67. Presented a paper titled 'Lung cancer diagnosis system using Hidden Markov model,' National Conference on Intelligent Computing in Communication & Automation at Kalasalingam University, 8th April 2011.

68. Presented a paper titled 'Image watermarking using contourlet transform,' National Conference on VLSI Design and Image Processing at Velammal Engineering College, 17thMarch 2011.

69. Presented a paper titled 'Performance comparison of weighted layered space time codes' National Conference on NCSSP in department of Electronics and Communication Engineering at Karpaga Vinayaga College of Engineering and Technology, 29th March 2010.

70. Presented a paper titled 'Extraction of lobar fissure in isotropic CT images to identify lung cancer by discrete wavelet transform,' National Conference on NCSC in department of Electronics and Communication Engineering, Jaya Engineering College, 5th April 2010.

71. Presented a paper titled 'Glaucoma detection by manual and automated method,' National Conference on NECE in department of Electronics and Communication Engineering at Jaya Engineering College, 5th April 2010.

72. Presented paper titled 'Glaucoma detection,' National conference on Networking & Communication in the Department of Electronics and Communication Engineering at R.M.D Engineering College, 19th April 2007.