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## **Publications**

### **INTERNATIONAL JOURNALS:**

1. 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 (A Scopus indexed & Anna University Annexure I journal), Impact factor: 0.31.
2. Karthikeyan.S and **Manikandan. T**, 'Brain Tumor Detection Via EEG Signals', Indian Journal of Applied Research, Vol. 9, Issue.1, pp. 213-215, ISSN: 2249-555X, 2019.
3. 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).
4. **T. Manikandan**, "Green synthesis of nanomaterials for early lung cancer detection", in Journal of Cancer Science and Therapeutics, Vol. 1, pp. 1, August 2018.
5. 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 (A Scopus indexed journal).
6. **T. Manikandan**, M.A Mohammed Aejaaz, 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. (A Scopus & SCI Indexed Journal).
7. **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. (A Scopus Indexed Journal).
8. V. Asokan, M. Sathish and **T. Manikandan**, 'Design and analysis of dual H-shape fractal antenna for UWB applications', in Journal of chemical and pharmaceutical sciences, ISSN: 0974-2115, Special issue 9, pp. 91-93, 2017 (A Scopus Indexed Journal).
9. **T. Manikandan** and N. Bharathi, 'Hybrid neuro-fuzzy system for prediction of stages of lung cancer based on the observed symptom values', Biomedical Research Journal, ISSN: 0970-938X, vol. 28, no. 2, pp. 588-593, 2017 (A Scopus Indexed Journal).
10. **T. Manikandan** and V. Suganya, 'Lung cancer detection from chest CT images using spatial FCM with level set and neural network classifier' in Archives of General internal medicine, vol.1, no. 1, pp. 17-21, 2017.
11. **T. Manikandan** and N. Bharathi, 'Lung cancer detection using fuzzy auto-seed cluster means morphological segmentation and SVM classifier', Journal of Medical Systems (A

- Springer journal), E-ISSN: 1573-689X, P-ISSN: 0148-5598, vol. 40, no. 7, pp. 1-9, 2016. (A Scopus & SCI Indexed Journal).
12. **T. Manikandan** and N. Bharathi, 'Lung cancer detection by automatic region growing with morphological masking and neural network classifier', Asian Journal of Information Technology, ISSN: 1682-3915, vol. 15, no. 21, pp. 4189-4194, 2016. (A Scopus Indexed Journal).
  13. **T. Manikandan** and N. Bharathi, 'A survey on computer-aided diagnosis systems for lung cancer detection', International Research Journal of Engineering and Technology, E-ISSN: 2395-0056, P-ISSN: 2395-0072, vol. 3, no. 5, pp. 1562-1570, 2016.
  14. **T. Manikandan**, 'Challenges in lung cancer detection using computer-aided diagnosis (CAD) systems-a key for survival of patients', Archives of General Internal Medicines, vol. 1, no.1, pp. 1-2, 2016.
  15. **T. Manikandan**, 'Computer Aided diagnosis (CAD) system for 3-D visualization of malignant modules - A key for an early stage surgical planning of lung cancer', Archives of General Internal Medicines, Vol. 1, no.1, pp. 1-3 Oct 2016.
  16. **T. Manikandan** and N. Bharathi, 'A novel semi-automated 3-D CAD visualization system as an aid for surgical planning of lung cancer,' in ARPN Journal of Engineering and Applied Sciences, vol. 10, no. 4, pp. 1872-1878, 2015. (A Scopus Indexed Journal).
  17. **T. Manikandan**, N. Bharathi and K. Velavan, 'Design of lung cancer specific questionnaires for the south Indian population,' in International Journal of Management, IT and Engineering, vol.4, no. 12, pp.311- 331, 2014.
  18. S. Seetharam, M. Suresh Kumar, Sai Saravan Harish and **T. Manikandan**, 'Registration Plate Recognition System,' in International Journal of Scientific Engineering and Research, ISSN: 2347-3878 vol. 2, no. 3, pp. 161-164, 2014.
  19. 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.

#### **INTERNATIONAL CONFERENCES:**

1. Sathiyapriya. A, Sathiya. K, Sneha. T, Rohit Raja. D and **Manikandan. T**, "Automatic Speed Control System in Vehicles using VANET" presented in Scopus indexed International conference on Frontiers Smart System Technologies (FSST -2019) held at Veltech University during April 3-5, 2019.
2. J.L. Mazher Iqbal and **T. Manikandan**, "FPGA Based Reconfigurable Architecture for DSP Computations", presented in Scopus indexed International conference on Frontiers Smart System Technologies (FSST -2019) held at Veltech University during April 3-5, 2019.
3. Venkataramanan. V and **Manikandan. T**, "Design and Development of a New Microstrip Antenna for ISM Band Applications" presented in Scopus indexed International conference on Frontiers Smart System Technologies (FSST -2019) held at Veltech University during 3-5, April 2019.
4. **Manikandan.T**, Kanagavalli. R, Kavitha. B, Mutharasi. J and Sathish. M, "Design and development of Patch Antenna Array with Band-pass Filter for ISM Band Applications" Accepted for Publication in Scopus Indexed IEEE Conference on Electronics and Communication and Aerospace Technology (ICECA-2019) to be held at RVS Technical Campus, Coimbatore during 12-14 June 2019.

5. Karthikeyan.S, **Manikandan.T**, Nandalal.V, Mazher Iqbal.J.L and Jai Jaganath Babu, "A Survey on Despeckling Filters for Speckle Noise Removal in Ultrasound Images", Accepted for Publication in Scopus Indexed IEEE Conference on Electronics and Communication and Aerospace Technology (ICECA-2019) to be held at RVS Technical Campus, Coimbatore during 12-14 June 2019.
6. R. Ruhin Kouser and **Manikandan. T**, "Resource Scheduling in Vehicular Cloud Network: A Survey", Accepted for Publication in Scopus Indexed IEEE Conference on Electronics and Communication and Aerospace Technology (ICECA-2019) to be held at RVS Technical Campus, Coimbatore during 12-14 June 2019.
7. V. Nandalal and **Manikandan.T**, "Performance Evaluation of Reconfigurable Antenna using Contact and Non contact Feeding Techniques", Accepted for Publication in Scopus Indexed IEEE Conference on Electronics and Communication and Aerospace Technology (ICECA-2019) to be held at RVS Technical Campus, Coimbatore during 12-14 June 2019.
8. R. Srilakshmi and T. Manikandan, "Performance Comparison of S-Band Antenna with Series fed and Corporate fed Microstrip Array" in International Conference on Power, Communications and Sustainable Energy System (ICPCSES-18) at SRM Hotel, GRM University Campus, Chennai, June 20-21, 2018.
9. 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.
- 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.
10. 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.
11. S.Sree vidhya and **T. Manikandan**, "Motion Detection for Banking Surveillance using RADAR System" in International conference on Innovation in Science and Engineering Research (ICISER'18) at New Prince Shri Bhavani College of Engineering & Technology, Chennai, March 23-24, 2018.
12. T. Sujeetha Devi and **T. Manikandan** presented a paper titled "Anti theft of Two Wheelers using RF based Accerelometer" in International conference on Innovation in Science and Engineering Research (ICISER'18) at New Prince Shri Bhavani College of Engineering & Technology, Chennai, March 23-24, 2018.
13. 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.
14. 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.
15. 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.

16. **T. Manikandan** and N. Bharathi, 'A Novel semi-automated 3-D CAD visualization system as an aid for surgical planning of lung cancer,' in International Conference on Intelligent Systems and Control at Karpagam College of Engineering, January 8-10, 2015.
17. 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.
18. E. Aswini, S. Divya, S. Kardheepan and **T. Manikandan**, 'Mathematical Morphology and bottom hat filtering approach for crack detection on relay surfaces,' in International Conference on Smart Structures & Systems at Saveetha Engineering College, March 28-29, 2013.
19. K. Iyshwerya, B. Janani, S. Krithika and **T. Manikandan**, 'Defect detection algorithm for high speed inspection in machine vision,' in International Conference on Smart Structures & Systems at Saveetha Engineering College, March 28-29, 2013.

#### **NATIONAL CONFERENCES:**

1. 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, 28<sup>th</sup> March 28, 2014.
2. 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, 3<sup>rd</sup> April, 2013.

#### **BOOK CHAPTER PUBLICATION:**

1. T. Manikandan and N. Bharhathi, 'Lung cancer diagnosis from CT images using fuzzy inference system,' in Computer Intelligence and Information Theory, Springer-Verlag Berlin Heidelberg, Vol. 250, pp.642-647, 2014, DOI:10.1007/978-3-642-25734-6\_110.