

Dr. D. Sugumar M.E., Ph.D.,

Assistant Professor (AGP 8000)

Department of Electronics and Communication Engineering,

Karunya Institute of Technology and Sciences (Deemed to be University),

Coimbatore, India-641114.

Phone No : +91 96294 51775

Land-Line (Off) : 0422-2614041

Email id : sugumar@karunya.edu, sugumar.ssd@gmail.com, sugumar@ieee.org

Scopus Author ID : 37051406500

ORCID ID : 0000-0001-9652-2062

Researcher ID: : H-4909-2016

Loop profile : 859279

Vidwan Profile :116948

Area of Interest : Signal Processing and Antenna Design

PAPER PUBLICATIONS:

Book Chapter Publication:

1. **Sugumar D** et al, “Smart Vehicle Monitoring and Tracking System powered by Active RFID and IoT Technologies”, The Cognitive Approach in Cloud Computing and Internet of Things Technologies for Surveillance Tracking Systems, **Elsevier Press**, ISBN 978-01-281-63856, March -2020.
2. **Sugumar D** et al, “Independent Vector Analysis of Non-Negative Image Mixture Model for Clinical Image Separation”, Advances in Computerized Analysis in Clinical and Medical Imaging, **CRC Press**, ISBN 978-1-138-33329-1, December- 2019.
3. **Sugumar D**, et al, “Sensitivity and Desirability Analysis for Process Parameter in End Milling of Al/SiCp MMC”, Advanced Engineering Research and Applications, Research India, Vol IX, ISBN 978-93-87374-54-6, 2018, pp.17-28

International Journal:

1. **Sugumar. D** et al, “Machining of microholes in Ti-6Al-4V by hybrid micro electrical discharge machining to improve process parameters and flushing properties”, Bulletin of the Polish Academy of Sciences. Technical Sciences, 68(3), 565-573, 2020. (Scopus)
2. **Sugumar. D** et al, “Capacitive disc fed GPS antenna operating at L Band”, International Journal of Innovative Technology and Exploring Engineering, 8(10), 3656-3659, 2019. (Scopus)
3. **Sugumar. D** et al, “Citrus Classification and Grading using Machine Learning Algorithms”, International Journal of Innovative Technology and Exploring Engineering, 8(10), 2616-2621, 2019. (Scopus)

4. **D. Sugumar** et al, "Patch antenna using biocompatible insulation layer in wireless on-body sensor applications", Journal of Engineering Science and Technology Review 12 (1), 99-103, 2019. (Scopus)
5. **D. Sugumar** et al, "Circularly Polarized Rectangular Microstrip Patch Antenna with Diagonal Asymmetric Slits", International Journal of Engineering & Technology 7 (4.6), 444-448, 2018.
6. **Sugumar. D** et al, "EEG Signal Separation using Improved EEMD-Fast IVA Algorithm", Asian Journal of Research in Social Sciences and Humanities 7 (3), 1230-1243, 2017.
7. **Sugumar. D** et al "Antenna behaviour under different soil conditions", International Journal of Civil Engineering and Technology 8 (10), 484-490, 2017. (Scopus)
8. **Sugumar. D** et al, "Separation of Maternal and Fetal ECG Signals Using Improved Independent Vector Analysis", Journal of Medical Imaging and Health Informatics 6 (8), 2048-2056, 2016. (Scopus)

International Conference:

1. **Sugumar. D** et al, "Dual-Pin-Fed Circularly Polarized Patch Antenna for Wi-Fi Application", International conference on intelligent computing instrumentation and control technologies on 5th and 6th July 2019 at Vimal Jyothi college of Engineering, Kerala. (IEEE Xplore Digital Library)
2. **Sugumar. D** et al, "Stacked Micro-Strip Patch Antenna for RFID", International conference on intelligent computing instrumentation and control technologies on 5th and 6th July 2019 at Vimal Jyothi college of Engineering, Kerala. (IEEE Xplore Digital Library)
3. **Sugumar. D** et al, "RFID and GPS antennas design of Heterogeneous tracking system for school children safety", International Conference on Signal Processing and Communication (ICSPC -2019), held on March. 29 – 30, 2019, at Coimbatore. (IEEE Xplore Digital Library)
4. **Sugumar. D** et al, "Design of Multiple Frequency Microstrip Antenna for Mine Applications", International Conference on Signal Processing and Communication (ICSPC - 2019), held on March. 29 – 30, 2019, at Coimbatore. (IEEE Xplore Digital Library)
5. **Sugumar. D** et al, "Design of Rectangular Array Microstrip Patch Antenna for Improved Return Loss", International Conference on Signal Processing and Communication (ICSPC - 2019), held on March. 29 – 30, 2019, at Coimbatore. (IEEE Xplore Digital Library)
6. **Sugumar. D** et al, "Design of All-Digital Phase Locked Loop for Improved Frequency Lock Range", International Conference on Signal Processing and Communication (ICSPC -2019), held on March. 29 – 30, 2019, at Coimbatore. (IEEE Xplore Digital Library). (IEEE Xplore Digital Library)
7. **D. Sugumar** et al, "Minimized Losses with High Isolation Pin Diode Based X-Band SP4T Switch for Phased Array Antenna Application," in the International Conference on Inventive

Research in Computing Applications, held at Coimbatore held on 11-12 July 2018. (IEEE Xplore Digital Library) (Scopus)

8. **D. Sugumar** et al, "Separation of Bony Structures and Lung Nodules from Dual Energy Chest X Ray Image by Means of Independent Pixel Analysis Algorithm", International Convention on Innovation Research in Science, Engineering Technology and Management Applications, Society of Engineers and Technicians, Kuala Lumpur, Malaysia, March 11-12, 2017.