

**SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110**

***Department of Electronics & Communication Engineering***

**STUDENT PUBLICATIONS**

**July 2019 to June 2020**

**B.E. - ELECTRONICS & COMMUNICATION ENGINEERING**

***TABLE OF CONTENTS***

<b>Sl. No.</b>	<b>CATEGORY</b>	<b>NUMBER OF PUBLICATIONS</b>
<b>1</b>	<b>INTERNATIONAL JOURNALS</b>	<b>10</b>
<b>2</b>	<b>NATIONAL JOURNALS</b>	
<b>3</b>	<b>INTERNATIONAL CONFERENCES</b>	<b>7</b>
<b>4</b>	<b>NATIONAL CONFERENCES</b>	<b>2</b>

# **SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110**

## **Department of Electronics & Communication Engineering**

### **STUDENT PUBLICATIONS**

**July 2019 to June 2020**

#### **B.E. - ELECTRONICS & COMMUNICATION ENGINEERING**

##### **International Journals:**

1. Mohammed Gulam Nabi Alsath (Faculty/ECE), Kirubaveni Savarimuthu (Faculty/ECE), Velkani Erattaiselvam (U.G ECE 2015-2019 batch), Srinithya Rapuru (U.G ECE 2015-2019 batch), Tusharika Yarasi (U.G ECE 2016-2020 batch), and Navya Dommalapati (U.G ECE 2016-2020 batch). "A compact tri-band microwave resonator for ethanol gas detection", International Journal of RF and Microwave Computer Aided Engineering, Volume 29, Issue10, pp. no. 1-10, October 2019.(Thomson Reuters, IF: 1.528)
2. Nagarajan K K (Faculty/ECE), Dinesh Kumar C N (U.G ECE 2016-2020 Batch), Adithya Avinash (U.G ECE 2016-2020 Batch), Sanjay S. (U.G ECE 2017-2021 Batch), Vinayak Hebbar (U.G ECE 2017-2021 Batch), Sumit Kumar (U.G ECE 2017-2021 Batch), Swetha S. (U.G ECE 2017-2021 Batch), "Synchronous Monitoring And Real Time Tracking Garbage System And Push Carts For Smart City Environment ", International Journal of Advanced Research in Basic Engineering Sciences and Technology(IJARBEST), Volume 6, Issue 4, pp. no. 30-34 , April 2020.
3. Sriram Vaishali(UG ECE 2016-20), Srikamakshi M.(UG ECE 2016-20), Jegadish Kumar K.J.(Faculty/ECE), Nagarajan K.K.(Faculty/ECE), "Randomness Analysis of YUGAM-128 Using Diehard Test Suite". Lecture Notes on Data Engineering and Communications Technologies, vol 46. Springer, Cham, pp. 600-607, Jan 2020,[https://doi.org/10.1007/978-3-030-38040-3\\_68](https://doi.org/10.1007/978-3-030-38040-3_68), unpaid, abroad
4. Anbuselvi Mathivanan(Faculty/ECE), Saravanan Palani .(Faculty/EEE), Kesav Ravichandran (UG ECE 2017-21), Nitesh Bharadwaj (UG ECE 2017-21), Neelesh Gopalakrishnan (UG ECE 2017-21) , "Autonomous Obstacle Avoidance Robot Using Reinforcement", International Journal of Advanced Science and Technology, Vol.29, No.9, pp.3741-3745, May 2020, Scopus Indexed.
5. Muthu Lekshmi(UG ECE 2015-19) V S Harish Kumar K(UG ECE 2015-19), and N.Venkateswaran (Faculty/ECE), " Efficient Computation of Sparse Spectra using Sparse Fourier Transform " in the Emerging Trends in Computing and Expert Technology, Springer 2019.Book chapter, Thomson Reuters, Unpaid Abroad

6. N.Padmapriya(Faculty/Maths), N.Venkateswaran (Faculty/ECE), K.Vijayalakshmi (UG ECE 2013-17) , G.K.Mallieswaran (Faculty/VIT) & R.Padmanabhan (Faculty/VIT), "Characterization of friction stir welds by logistic regression using fractal and wavelet features", Advances in Materials and Processing Technologies, pp 1-17, 2019,DOI:10.1080/2374068X.2019.1641002 Scopus indexed., Unpaid Abroad.
7. Anand Subramanian (UG ECE 2015-19), Venkateswaran N (Faculty/ECE) and Jino Hans W (Faculty/ECE), "Kinect Based Outdoor Navigation for the Visually Challenged using Deep Learning" in the springer AIS book series on Advances in Machine Learning and Computational Intelligence pp 349-357, 2020.
8. Edna Elizabeth N(Prof/ECE), Varsha S (UG ECE 2015-19), Tharun Kishor A R (UG ECE 2015-19), Saihariharan S (UG ECE 2015-19), "Performance analysis of Cryptographic Primitives", Caribbean Journal of Science, ISSN: 0008-6452, Volume 53, Issue 2, (May-Aug), 2019, pp 2490-2496. (Indexed in Thomson Reuters and scopus, Imp. Factor = 0.20).
9. Devi Sowjanya Potti (RS/ECE) , Pranamika Balaji (UG ECE 2015-19), Mohammed Gulam Nabi Alsath (Asso. Prof/ECE) , Kirubaveni Savarimuthu (Asso. Prof/ECE), Udayaehzil Selvam (UG ECE 2015-19), Nilavathani Valavan (UG ECE 2015-19), "Reconfigurable Bow-Tie Based Filtering Antenna for Cognitive Radio Applications", International Journal of RF & Microwave Computer Aided Engineering, Impact Factor: 1.528, Vol 30, March 2020. DOI:10.1002/mmce.22208.
10. Jayavanta Shakthi Poorna Sekar (UG ECE 2014-18) and R. Jayaparvathy, "Quality Monitoring of Saccharum officinarum (Sugarcane) Using Image Analysis", Sensor Letters, Vol. no.18, pp.no. 304–310, May, 2020.

### **International Conferences:**

1. M. Ramesh (U.G ECE 2016-2020 batch), S. Akruthi (U.G ECE 2016-2020 batch), K. Nandhini (U.G ECE 2016-2020 batch), S. Meena (U.G ECE 2016-2020 batch), S. Joseph Gladwin (Faculty/ECE) and R. Rajavel (Faculty/ECE), "Implementation of Vehicle Security System using GPS,GSM and Biometric," 2019 Women Institute of Technology Conference on Electrical and Computer Engineering (WITCON ECE), Dehradun Uttarakhand, India, 22-23 Nov 2019, pp. 71-75.
2. Gulam Nabi Alsath Mohammed (Faculty/ECE), Kirubaveni Savarimuthu (Faculty/ECE), Sarathkumar M.A (Faculty/ECE), Tusharika Yarasi (U.G ECE 2016-2020 batch), and Samanu Sreelekha (U.G ECE 2016-2020 batch), Pranamika Balaji (U.G ECE 2015-2019 batch). "Dual-band Complementary Slot Fed Antenna for RFID Applications", 2019 Fifth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), Chennai, India, 29-30 March 2019, Volume 01, pp. 493-496.

3. Gulam Nabi Alsath Mohammed (Faculty/ECE), Kirubaveni Savarimuthu (Faculty/ECE), Ramachandran Natesan (Faculty/ECE), Pranamika Balaji (U.G ECE 2015-2019 batch), Navya Dommalapati (U.G ECE 2016-2020 batch), and Samanu Sreelekha (U.G ECE 2016-2020 batch). " Design of Ultra-Wideband Antenna Array for Mobile Terminals", 2019 Fifth International Conference on Science Technology Engineering and Mathematics (ICONSTEM), Chennai, India, 29-30 March 2019, Volume 01, pp. 497-500.
4. R.Deepika Devi (PG – CS 2017-19), Hemalatha.R, Radha.S and Shreya Gaur (UG ECE 2016-20), "IoT Enabled Efficient Detection and Classification of Hill Banana Diseases", in the proceedings of the Second International Conference on Advances in Electrical, Electronic and System Engineering, 2-3, November, 2019, Gauhati University, Assam.
5. Taruna Sudhakar(UG ECE 2016-20), Sundar Sripada Venugopaldaswamy Sriraman(UG ECE 2016-20) and Venkateswaran N(Faculty/ECE), "Synthesis and Evaluation of Improved Reference Matrix Models for High Capacity Image Steganography , International Conference on Artificial Intelligence and Signal Processing AISP'20, VIT, AP, 10-12 Jan 2020.
6. Bharath Raj(UG ECE 2015-19), Anand Subramanian(UG ECE 2015-19), Kashyap Ravichandran(UG ECE 2015-19) and Venkateswaran N(Faculty/ECE), "Exploring Techniques to Improve Activity Recognition using Human Pose Skeletons", 2nd International Workshop on Human Activity Detection in multi-camera, Continuous, long-duration Video (HADCV'20), IEEE Winter Conf. on Applications of Computer Vision (WACV) Aspen, Colorado, March 1-5, 2020.
7. Vigneshwar Veeravagu (UG-MECH), Vishal Mohan (UG-MECH), Tejaswini P (UG-ECE 2017-21), Sai Deepika (UG-ECE 2017-21), Raksshitha NJ (UG-EEE), Hashmat Jeelani Banday (UG-EEE), Sakthivel Murugan S (Faculty - ECE), Vimal Samsingh (Faculty - MECH), Dr K Murugaesan (Faculty - EEE), "Prototype of Inspection Class Remotely Operated Vehicle", presented a poster in the 2019 International Symposium on Ocean Technology (SYMPOL 2019), held at Department of Electronics, Cochin University of Science and Technology (CUSAT), Cochin, India, between 11-13, Dec 2019.

### **National Conferences:**

1. Ajitha R (UG ECE 2016-20), Ajeetha A (UG ECE 2016-20), Deepika D (UG ECE 2016-20), Dr. S. Ramprabhu (Faculty ECE), Dr. C. Annadurai (Faculty ECE), "Design and fabrication of flexible FSS for Electromagnetic Shielding Applications ", National Conference on Fuel Cell and Electric Vehicle Technology (FCEVT'20), 24<sup>th</sup> January 2020, Page no. 22, SSN College of Engineering, Chennai, India.

2. Nahul S (UG ECE 2016-20), Mohd Shahrukh (UG ECE 2016-20), Barath Kumar (UG ECE 2016-20), Abdulla Khan (UG ECE 2016-20), Dr. S. Ramprabhu (Faculty ECE), Dr. P. Rajesh (Faculty Physics), “Design and development of optically transparent frequency selective surface”, National Conference on Fuel Cell and Electric Vehicle Technology (FCEVT’20), 24<sup>th</sup> January 2020, Page no. 21, SSN College of Engineering, Chennai, India.

**SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110**

**Department of Electronics & Communication Engineering**

**STUDENT PUBLICATIONS**

**July 2019 to June 2020**

**M.E. - APPLIED ELECTRONICS**

**TABLE OF CONTENTS**

<b>Sl. No.</b>	<b>CATEGORY</b>	<b>NUMBER OF PUBLICATIONS</b>
<b>1</b>	<b>INTERNATIONAL JOURNALS</b>	<b>-</b>
<b>2</b>	<b>NATIONAL JOURNALS</b>	<b>-</b>
<b>3</b>	<b>INTERNATIONAL CONFERENCES</b>	<b>-</b>
<b>4</b>	<b>NATIONAL CONFERENCES</b>	<b>-</b>

**SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110**

**Department of Electronics & Communication Engineering**

**STUDENT PUBLICATIONS**

**July 2019 to June 2020**

**M.E. - COMMUNICATION SYSTEMS**

**TABLE OF CONTENTS**

<b>SL. No.</b>	<b>CATEGORY</b>	<b>NUMBER OF PUBLICATIONS</b>
<b>1</b>	<b>INTERNATIONAL JOURNALS</b>	<b>5</b>
<b>2</b>	<b>NATIONAL JOURNALS</b>	
<b>3</b>	<b>INTERNATIONAL CONFERENCES</b>	<b>3</b>
<b>4</b>	<b>NATIONAL CONFERENCES</b>	

# **SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110**

## **Department of Electronics & Communication Engineering**

### **STUDENT PUBLICATIONS**

**July 2019 to June 2020**

#### **M.E. - COMMUNICATION SYSTEMS**

##### **International Journals:**

1. Aruna, V (RS/SSN); Alsath, M.G.N (Faculty/ECE); Kirubaveni S (Faculty/SSN); Maheswari, M (ME-CS-2019 batch); “Flexible and Beam Steerable Planar UWB Quasi-Yagi antenna for WBAN,” IETE Journal of Research, Taylor and Francis, IF: 0.793, ISSN:0974-780X, DOI:10.1080/03772063.2019.1694453, Thomson Reuters, Unpaid, Abroad.
2. Aruna, V (RS/SSN); Alsath, M.G.N (Faculty/SSN); Kirubaveni S (Faculty/SSN); Maheswari, M (ME-CS-2019 batch); Bhuvaneshwari, B(Faculty/PEC); “Polarization Diversity Enabled Flexible Directional UWB Monopole Antenna for WBAN Communications,” International Journal of RF and Microwave Computer-Aided Engineering, May 2020, IF: 1.472, ISSN: 1099-047X, DOI: 10.1002/mmce.223112, Thomson Reuters, Unpaid, Abroad.
3. P. Kaythry (ASP/ECE), R. Kishore (ASP/ECE) & V. Nancy Priyanka (ME CS 2015-17) Performance analysis of LT code-based HARQ error control in underwater acoustic sensor networks, Journal of Marine Engineering & Technology, June 2019, Thomson Reuters, Impact factor: 0.548, DOI: 10.1080/20464177.2019.1632682.
4. Arunkumar Balasubramanian (PG CS 2017-19), Sakthivel Murugan Santhanam (Faculty –ECE), “Seawater – Activated Battery : Developing prototype for Underwater Alternative Energy Source”, in Sea Technology, Vol .60, No.7, pp.13-14, July 2019.(TR- Unpaid, IF-0.05)
5. Sakthi B (Research Scholar/ECE), Esther Florence S (ASP/ECE), Harshavardhini A (PG CS 2017-19), “A Compact Conformal Windshield Antenna for Location Tracking on Vehicular Platforms”, IEEE Transactions on Vehicular Technology, vol. 68, no. 4, July 2019, pp. 4047-4050. IF: 5.339, ISSN: 2379-8858, Thomson Reuters (IF - 5.379), Unpaid, Abroad.



## International Conferences:

1. R.Deepika Devi (PG – CS 2017-19), Hemalatha.R (Faculty/ECE), Radha.S (Faculty/ECE) and Shreya Gaur (UG ECE 2016-20), “IoT Enabled Efficient Detection and Classification of Hill Banana Diseases”, in the proceedings of the Second International Conference on Advances in Electrical, Electronic and System Engineering, 2-3, November, 2019, Gauhati University, Assam.
2. Joannes Sam Mertens J (PG – CS 2016-18), Dr.Edna Elizabeth (Faculty/ECE), Dr.Kaythry.P (Faculty/ECE), “Vehicle to Infrastructure Based Automobile Pollution Monitoring System” 1st International Conference on Recent Trends in Clean Technologies for Sustainable Environmental, CTSE-2019 proceedings, 26th-27th September 2019, pp 6, SSN College of Engineering, Tamil Nadu-603110, India
3. S. J. Gladwin (Faculty/ECE) and P. Lakshmi Gowthami (PG – CS 2018-20), "Combined Cryptography and Steganography for Enhanced Security in Suboptimal Images," 2020 International Conference on Artificial Intelligence and Signal Processing (AISP), Amaravati, India, Jan 2020, pp. 1-5, doi: 10.1109/AISP48273.2020.9073306.

**SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110**

**Department of Electronics & Communication Engineering**

**STUDENT PUBLICATIONS**

**July 2019 to June 2020**

**M.E. - VLSI DESIGN**

**TABLE OF CONTENTS**

<b>Sl. No.</b>	<b>CATEGORY</b>	<b>NUMBER OF PUBLICATIONS</b>
<b>1</b>	<b>INTERNATIONAL JOURNALS</b>	<b>3</b>
<b>2</b>	<b>NATIONAL JOURNALS</b>	
<b>3</b>	<b>INTERNATIONAL CONFERENCES</b>	<b>2</b>
<b>4</b>	<b>NATIONAL CONFERENCES</b>	

# **SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110**

## **Department of Electronics & Communication Engineering**

### **STUDENT PUBLICATIONS**

**July 2019 to June 2020**

#### **M.E. - VLSI DESIGN**

#### **International Journals:**

1. Kirubaveni Savarimuthu, Radha Sankararajan, Gulam Nabi Alsath M., Ani Melfa Roji M (PG VLSI 2014-16), "Design and Analysis of Wideband Cropped Trapezoidal Cantilever with Enhanced Power Conversion Efficiency", Journal of Active and Passive Electronic Devices, 2019.
2. Kiruthika Ramany, Radha Shankararajan, Kirubaveni Savarimuthu, Priyadharshini Elumalai (PG VLSI 2016-18), Govindaraj Rajamanickam , Santhosh Narendhiran and Ramasamy Perumalsamy "Experimental Study of Different Vanadium Dopant Concentrations in ZnO Nanorods for a Low Frequency Piezoelectric Accelerometer" Journal of Electronic Materials, 48, 2019, 5310-5322. (IF : 1.579)
3. R.Kiruthika, S.Radha , S.Kirubaveni, E.Priyadharshini (PG VLSI 2016-18), R.Govindaraj, N.Santhosh, P.Ramasamy "Comparative study on hydrothermally synthesized undoped and Vanadium doped Zinc Oxide nanorods for nanoelectromechanical systems low-frequency accelerometer application", Thin Solid Films, <https://doi.org/10.1016/j.tsf.2019.04.018>.

#### **International Conferences:**

1. R.Kiruthika (RS/ECE), S.Radha (Faculty/ECE), S.Kirubaveni (Faculty/ECE), V.Shyamala (PG-VLSI 2018-2020 batch), "Fabrication and experimental analysis of CuSCN coated ZnO nanorods for piezoelectric accelerometer application", Volume IV, pp.93-95, in Proc. of International Conference for Intelligent Digital Transformation ICIDT,11-13 July 2019, Sri Ramakrishna Engineering College, Coimbatore. (Best Paper Award)
2. R.Kiruthika (RS/ECE), S.Radha (Faculty/ECE),V.Shyamala (PG-VLSI 2018-2020 batch), S.Kirubaveni (Faculty/ECE), "Fabrication and characterization of ZnO based thin film for methane gas sensing application", International Conference on Instrumentation, MEMS and Biosensing Technology-2020, 13 – 15 February 2020, SRM ,Kattankulathur , Chennai.

**SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110**

**Department of Electronics & Communication Engineering**

**STUDENT PUBLICATIONS**

**July 2019 to June 2020**

**RESEARCH SCHOLARS (FULL-TIME)**

**TABLE OF CONTENTS**

<b>Sl. No.</b>	<b>CATEGORY</b>	<b>NUMBER OF PUBLICATIONS</b>
<b>1</b>	<b>INTERNATIONAL JOURNALS</b>	<b>42</b>
<b>2</b>	<b>NATIONAL JOURNALS</b>	
<b>3</b>	<b>INTERNATIONAL CONFERENCES</b>	<b>11</b>
<b>4</b>	<b>NATIONAL CONFERENCES</b>	<b>4</b>

# SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

## Department of Electronics & Communication Engineering

### STUDENT PUBLICATIONS

**July 2019 to June 2020**

#### RESEARCH SCHOLARS (FULL-TIME)

##### **International Journals:**

1. Shanthapriya.R (RS/ECE), Vaithianathan.V (Faculty/ECE), “Secured healthcare monitoring system in wireless body area network using polynomial based technique” in Polish Journal of Medical Physics and Engineering, Volume 25, issue 3, pp 171-177, September 2019. (Indexed in Thomson Reuters and Scopus) (Unpaid).
2. C. Mohan & S. Esther Florence, “Miniaturised Triangular Microstrip Antenna with Metamaterial for Wireless Sensor Node Applications”, IETE Journal of Research, vol.65, issue.3, pp 1-6, July 2019.
3. V. Lingasamy (RS/ECE) and K. T. Selvan (Prof./ECE), “A comparison of planar convex dielectric lens loaded flat reflector with parabolic reflector and reflectarray”, Microwave and Optical Technological Letters, Vol. 61, No. 11, pp. 2500-2505, September 2019. (Thomson Reuters, IF-0.933)
4. V. Lingasamy (RS/ECE), K. T. Selvan (Prof./ECE), and P. H. Rao, “Performance comparison of stepped and smooth dielectric lens-loaded flat reflectors” Progress in Electromagnetic Research, Vol. 81, pp. 203-213, June 2019. (indexed in Clarivate Analytics' Emerging Source Citation Index and Elsevier's SCOPUS and Compendex)
5. M.Kavitha (RS /ECE), N.Venkateswaran ( Prof /ECE), “An Ultra-thin triple band polarization independent wide-angle microwave metamaterial absorber “, Plasmonics , 1-9, 10.1007/s11468-019-00985-y, July 2019.(Thomson Reuters I.F 2.926)
6. K Ashwini (RS /ECE), R Amutha ( Prof /ECE), “Sparse based image fusion using compact sub-dictionaries”, Journal of Engineering Science and Technology, Vol. 14, No. 3,pp. 1231 - 1247, June 2019. (Thomson Reuters)
7. Sumana L(RS/ECE),S Esther Florence( Prof /ECE), “Investigation on Frequency Reconfigurability of a Microstrip Patch Antenna Using a Ni-Ti Shape Memory Alloy for an Automatic Fire Sprinkler System” Journal of Electronic Materials, Vol.48, No.9, July 2019.

8. S. Sasi Princy, B.S.Sreeja, E. Manikandan, S.Radha, “ Structure Metallic Surface for Terahertz Plasmonics”, Plasmonics, Volume 14, Issue 6, pp. 1311-1319, 19 June 2019.
9. A.Elakkiya (RS/ECE), S.Radha (Prof. and Head/ECE), E.Manikandan, B.S.Sreeja(Asso. Prof./ECE)," Design of a five-band polarization-insensitive terahertz metamaterial absorber", Journal of Optoelectronics and Advanced Materials, Vol. 21, Issue No. 7-8, July – August 2019, pp.450 - 454,IF-0.588(Thomson Reuters)
10. D. Kanchana (RS/ECE), S. Radha (Prof. & Head/ ECE), B. S. Sreeja (Asso. Prof/ECE) & E. Manikandan (Asst. Prof/ECE), “Convuluted FSS Structure For Shielding Application In X-Band Frequency Response”, IETE Journal of Research, Volume 65, Issue 4, PP. 1-7, 21 Nov 2019, DOI: 10.1080/03772063.2019.1691062.
11. D. Kanchana (RS/ECE), S. Radha (Prof. & Head/ ECE), B. S. Sreeja (Asso. Prof/ECE) & E. Manikandan (Asst. Prof/ECE), “Polarization independent bandstop frequency selective surface for X-band application”, Circuit World, Vol. 46, Issue 1, pp. 25-31, 3 Nov 2019, DOI: 10.1108/CW-01-2019-0003.
12. Kanchana, D (RS/ECE), Radha, S (Prof & Head/ECE), Sreeja, B. S (Asso. Prof/ECE), & Manikandan, E (Asst. Prof/ECE), “A Single Layer UWB Frequency Selective Surface for Shielding Application”, Journal of Electronic Materials. Volume 49, Issue 7, pp: 1-7, June 2020.
13. Melvin C. Jose , S. Radha , B. S. Sreeja ,Pratap Kumar, “Laser micro-machined 28 GHz broad band single feed microstrip antenna for 5G mm-wave applications” Circuit World, Vol.46, Issue.1, pp 6-12, 21 October 2019.
14. B. Sakthi Abirami (RS/ECE), Esther Florence Sundarsingh (Asso. Prof/ECE), “Conformal self-balanced EBG integrated printed folded dipole antenna for wireless body area networks”, IET Microwaves, Antennas & Propagation, Vol. 13, Issue 14, pp. 2480-2485, Nov 2019.
15. G. Padmalaya (RS/ECE), B. S. Sreeja (Asso. Prof/ECE), S. Shoba (RS/ECE), R. Rajavel (Asso. Prof/ECE), S. Radha (Prof. and HOD/ECE), M. Arivanandan (Prof./NST/Anna University), Sujan Shrestha (Admiral Inst./USA), “Synthesis of Micro-dumbbell Shaped rGO/ZnO Composite Rods and Its Application Towards as Electrochemical Sensor for the Simultaneous Determination of Ammonia and Formaldehyde Using Hexamine and Its Structural Analysis”, Journal of Inorganic and Organometallic Polymers and Materials, June 2019 (Published Online).
16. T. Manikandan, G. Padmalaya (RS/ECE), S. Mahalakshmi (B.E/REC/ECE), A.S. Nivethitha (B.E/REC/ECE), V. Pavithran (B.E/REC/ECE), S. Perumal (B.E/REC/ECE), B.S. Sreeja (Asso. Prof/ECE), P. Senthil Kumar (Asso. Prof/Chemical),” 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, doi: 10.1049/iet-nbt.2019.0193 October 2019

17. J. Saranya (Asst.Prof/REC/RS/ECE), B. S. Sreeja (Asso. Prof/ECE), G. Padmalaya (RS/ECE), S. Radha (Prof. and HOD/ECE), T. Manikandan (Prof./ECE/REC),” 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, November 2019.
18. R.Kiruthika, S.Radha , S.Kirubaveni, E.Priyadharshini, R.Govindaraj, N.Santhosh, P.Ramasamy “Comparative study on hydrothermally synthesized undoped and Vanadium doped Zinc Oxide nanorods for nanoelectromechanical systems low-frequency accelerometer application”, Thin Solid Films,<https://doi.org/10.1016/j.tsf.2019.04.018>.
19. R.Kiruthika, S.Radha , S.Kirubaveni, E.Priyadharshini, R.Govindaraj, N.Santhosh, P.Ramasamy “Experimental Study of Different Vanadium Dopant Concentrations in ZnO Nanorods for a Low Frequency Piezoelectric Accelerometer”,Journal of Electronic Materials.
20. Sathyapriya L (RS/ECE), Jawahar. A ,” Energy centroid clustering algorithm to enhance the network lifetime of wireless sensor networks in Multidimensional systems and Signal Processing, Nov 2019.
21. Abirami A (SRF/ECE), Esther Florence S (Asso Prof/ECE), Vimal Samsingh R (Asso Prof / MEch), “Design and experimental evaluation of a novel on-body textile antenna for unicast applications”, Microw Opt Technol Lett. Vol. 62, Issue 2, pp. 789– 799, Oct 2019. <https://doi.org/10.1002/mop.32075>.
22. B. Ashvanth (RS/ECE), B. Partibane (Faculty/ECE), M. GulamNabi Alsath (Faculty/ECE), “Tunable Dual Band Antenna with Multi-Pattern Reconfiguration for Vehicular Applications”, International Journal RF & Microwave Computer Aided Engineering. Nov 2019, (Indexed in Thomson Reuters and Scopus) (Unpaid).
23. S. Shoba (RS/ECE), R. Rajavel (Asso. Prof/ECE), Asutosh Kar (Asst. Prof/ECE) & Banshidhar Majhi (Prof/CSE) “Monaural speech separation using Genetic Algorithm – Deep Neural Network based Integration scheme”, Applied Acoustics, (Elsevier), Vol.160, 107140, March 2020, (SCI, IF: 2.345).
24. Jansi, R., R. Amutha, and S. Radha. "Remote Monitoring of Children With Chronic Illness Using Wearable Vest." In Telemedicine Technologies, pp. 121-137. Academic Press, 2019.

25. R. Jansi (RS/ECE), R. Amutha (Prof/ECE), "Detection of fall for the elderly in an indoor environment using a tri-axial accelerometer and Kinect depth data", *Multidimensional systems and signal processing*, pp. 1-19, Jan 2020, (Thomson Reuters I.F-2.338).
26. Mariya Celin T A (RS/ECE), Nagarajan T (Prof & Head/IT), Vijayalakshmi P (Prof/ECE), "Data Augmentation using virtual microphone array synthesis and multi-resolution feature extraction for isolated word dysarthric speech recognition," in *IEEE Journal of Selected Topics in Signal Processing*, February 2020. (Impact Factor : 6.688)
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3. A.Elakkiya, S.Radha, E.Manikandan, B.S.Sreeja,"Design and Numerical analysis of Tri band Terahertz Metamaterial",IEEE TENCON 2019,17-20 october 2019,kochin,kerala.
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### **National Conferences:**

1. M. Vimal Raj (RS/ECE), S. Sakthivel Murugan (Faculty/ECE) and N. Padmapriya (Faculty/MATHS) “Underwater Image Processing using Hyperparameter Algorithms”, National Conference on Challenges in Earth System Sciences for Global Sustainability (CESS-GS), 15-16 January 2020, IIT Kharagpur. (Best Presenter Award).
2. M. Dhana Lakshmi (RS/ECE), M. Vimal Raj (RS/ECE) and S. Sakthivel Murugan (Faculty/ECE) “Intensity Based Shadow Classification- SSS Images”, National Conference on Challenges in Earth System Sciences for Global Sustainability (CESS-GS), 15-16 January 2020, IIT Kharagpur.
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