

# SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

## Department of Electronics & Communication Engineering

### **STUDENT PUBLICATIONS**

**June 2017 to May 2018**

#### International Journals:

1. S. Rajkumar (PT-RS/ECE), N. Vivek Sivaraman (UG-ECE 2013-2017 batch), M. Sharada (UG-ECE 2013-2017 batch) and K. T. Selvan (Faculty/ECE), "Heptaband swastik arm antenna for MIMO applications", IET Microwaves Antennas and Propagation, vol. 11, no. 9, pp. 1255-1261, July 2017. (IF: 1.187, Thomson Reuters)
2. G. Annalakshmi (RS/ECE), S. Sakthivel Murugan (Faculty/ECE), P. Venugopal (Faculty/Maths), V. Swetha (UG ECE 2012-2016 batch), K. S. Vaishali (UG ECE 2012-2016 batch), "Coherence analysis of ambient noise in shallow water for underwater communications", Journal of Marine Science and Technology, vol. 25, no.3, pp. 311-318, 2017.
3. N. Padmapriya, (Faculty/Maths), N. Venkateswaran (Faculty/ECE), Ms. Toshitha Kannan (UG-ECE 2012-2016 batch), M. Sindhu Madhuri (UG-ECE 2012-2016 batch), "Non-invasive Glaucoma Screening Using Ocular Thermal Image Classification", Journal of Computing and Information Technology, vol.25, no.3, pp. 227-236, September 2017. (Scopus-indexed, SJR: 0.156, SNIP: 0.480)
4. Y. Kiran (UG-ECE 2014-2018 batch), V. Shrinidhi (UG-ECE 2014-2018 batch), W. Jino Hans (Faculty/ECE), and N. Venkateswaran (Faculty/ECE), "A Single Image Super-resolution Algorithm for Infrared Images", in International Journal of Computer Science and Network Security, vol.17, no.10, pp. 256-261, October 2017.
5. R. Jayaparvathy (Faculty/ECE), A. Sheeba Angel (PG-VLSI 2015-2017 batch), P. Nitin Barattwaj (UG-ECE 2013-2017 batch), Srihaarika Vijjappu (UG-ECE 2013-2017 batch), S. Srisruthi (UG-ECE 2013-2017 batch), "Autonomous Indoor Navigation Robot", International Journal of Engineering and Technology (IJET), vol. 9, no. 5, pp. 3931-3944, Oct-Nov 2017. (Scopus-indexed, SNIP: 0.81)
6. N. Edna Elizabeth (Faculty/ECE), T. K. Gowthaman (UG-ECE 2013-2017 batch), J. Joannes Sam Mertens (UG-ECE 2013-2017 batch), P. Likhitta Dugar (UG-ECE 2013-2017 batch), "Intelligent Counter System for Generating Attendance" In: J. Anguera, S. Satapathy, V. Bhateja, K. Sunitha (eds) Microelectronics, Electromagnetics and Telecommunications, Lecture Notes in Electrical Engineering, vol. 471, pp. 11-22, Springer, Singapore, 2018. DOI: [https://doi.org/10.1007/978-981-10-7329-8\\_2](https://doi.org/10.1007/978-981-10-7329-8_2)
7. S. Rajkumar (PT-RS/ECE), Nandagopal Srinivasan (UG-ECE 2013-2017 batch), Aadya Natesan (UG-ECE 2013-2017 batch) and K.T. Selvan (Faculty/ECE), "A penta-band hybrid fractal MIMO antenna for ISM applications", International Journal of RF and Microwave Computer-Aided Engineering, vol. 28, issue 2, pp. 1-13, February 2018. (IF:0.746, Thomson Reuters)

8. M. Mohana Krishnan (UG-ECE 2013-2017 batch), G. S. Sudharsana Prasad (UG-ECE 2014-2018 batch), M. Gulam Nabi Alsath (Faculty/ECE), R. Balaji (UG-ECE 2013-2017 batch), S. Logesh (UG-ECE 2013-2017 batch), "Audio Transmission through Free Space Optics using Visible Light", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), vol. 5 issue 3, pp.153-156, March-April 2018.
9. G. S. Sudharsana Prasad (UG-ECE 2014-2018 batch), K. Arun (UG-ECE 2014-2018 batch), M. Gulam Nabi Alsath (Faculty/ECE), "Design of Shared Aperture Microstrip Patch Antenna Array For Conformal 5G Communications", International Journal of Scientific Research in Science, Engineering and Technology (IJSRSET), vol. 5 issue 3, pp.157-161, March-April 2018.
10. S. Dyaneshwar (UG-ECE 2014-2018 batch), K. Monica (UG-ECE 2014-2018 batch), G. Jaiyashri (UG-ECE 2014-2018 batch), K. Muthumeenakshi (Faculty/ECE), "Mobile app based Smart Office framework with support for data analytics on cloud", International Journal of Advanced Research in Basic Engineering Sciences and Technology (IJARBEST), vol.4, no.5, May 2018.
11. Harshitha Duraisamy (PG-AE 2015-2017 batch), G. Annalakshmi (RS/ECE), S. Sakthivel Murugan (Faculty/ECE), "Model predicting sediment transport", Journal of Sea Technology, vol. 58 (6), pp. 26-28, June 2017. (IF: 0.064, Thomson Reuters)
12. R. S. Preethithaa (PG-AE 2015-2017 batch), C. Annadurai (Faculty/ECE), "Performance Analysis of Triple Hop Cooperative Communication Networks", African Journal of Basic & Applied Sciences, vol. 9 (4), pp. 192-197, DOI: 10.5829/idosi.ajbas.2017.192.197, June 2017.
13. B. Sakthi Abirami (PG-CS 2015-2017 batch), S. Esther Florence (Faculty/ECE), "EBG-Backed Flexible Printed Yagi-Uda Antenna for On-Body Communication", IEEE Transactions on Antennas and Propagation, vol. 65, no. 7, pp. 3762-3765, July 2017. DOI: 10.1109/TAP.2017.2705224. (IF: 2.957, Thomson Reuters)
14. V. Angayarkanni (RS/ECE), V. Akshaya (PG-CS 2014-2016 batch) and S. Radha (Faculty/ECE), "Design of a Compressive Sensing based Fall detection system for elderly using WSN", Springer's Wireless Personal Communication, August 2017 (Published online). DOI: 10.1007/s11277-017-4876-x. (IF: 0.951, Thomson Reuters)
15. G. Azhaguvarthani (PG-CS 2015-2017 batch), B. Ramani (Faculty, ECE), "Handwritten text recognition system for English", International Journal of Pure and Applied Mathematics, vol. 117, no. 16, pp. 257-263, 2017. Special Issue. (Scopus-indexed, SJR: 0.253, SNIP: 0.388)
16. S. Aasha Nandhini (PDF/ECE), R. Hemalatha (Faculty/ECE), S. Radha (Faculty/ECE), K. Indumathi (PG-CS 2015-2017 batch), "Web Enabled Plant Disease Detection System for Agricultural Applications using WMSN", Springer's Wireless Personal Communications, pp.1-16, December 2017 (Published Online). DOI: 10.1007/s11277-017-5092-4. (IF: 0.951, Thomson Reuters)
17. P. Kaythry (Faculty, ECE), R. Kishore (Faculty, ECE), V. Praveena (PG-CS 2015-2017 batch) published a paper titled "Energy Efficient Raptor Codes for Error Control in Wireless Body Area Networks" in Springer's Wireless Personal Communications, January 2018 (Published Online), pp. 1-19. DOI: <https://doi.org/10.1007/s11277-018-5271-y> (IF: 0.951, Thomson Reuters)
18. J. Florence Gnana Poovathy (RS/ECE), S. Radha (Faculty/ECE), V. Suganesh (PG-CS

- 2014-2016 batch), "Non-iterative CS recovery algorithm for surveillance applications: subjective and real-time experience", Springer's Multidimensional Systems and Signal Processing, May 2018 (Published online), pp. 1-12. DOI: <https://doi.org/10.1007/s11045-018-0584-2>. (IF: 1.365, Thomson Reuters)
19. R. Jayaparvathy (Faculty/ECE), A. Sheeba Angel (PG-VLSI 2015-2017 batch), P. Nitin Barattwaj (UG-ECE 2013-2017 batch), Srihaarika Vijjappu (UG-ECE 2013-2017 batch), S. Srisruthi (UG-ECE 2013-2017 batch), "Autonomous Indoor Navigation Robot", International Journal of Engineering and Technology (IJET), vol. 9, no. 5, pp. 3931-3944, Oct-Nov 2017. (Scopus-indexed, SNIP: 0.81)
  20. G. Durga (Faculty/ECE) and M. Meryl Rino (PG-VLSI 2015-2017 batch), "Performance Analysis of Single Event Double Upset Immune D and S-R Flip flops", WSEAS Transactions on Electronics, vol. 9, 2018, Art. #7, pp. 61-68.
  21. S. Kirubaveni (Faculty/ECE), S. Radha (Faculty/ECE), M. Gulam Nabi Alsath (Faculty/ECE), M. Ani Melfa Roji (PG-VLSI 2014-2016 batch), "Design and analysis of cantilever based piezoelectric vibration energy harvester", Circuit World, vol. 44, issue 2, pp.78-86, February 2018. DOI: <https://doi.org/10.1108/CW-11-2017-0067>. (IF: 0.727, Thomson Reuters)
  22. D. Harshitha (PG-AE 2015-2017 batch), G. Annalakshmi (RS/ECE), S. Sakthivel Murugan (Faculty/ECE), "Model predicting sediment transport", Journal of Sea Technology, vol. 58 (6), pp. 26-28, June 2017. (IF: 0.064, Thomson Reuters)
  23. J. Saranya, B. S. Sreeja (Faculty/ECE), S. SriValli Meena, Y.S. Vedhajanani, B. VigneshPriya, G. Padmalaya (RS/ECE), "Study of Electrical Properties of Cadmium Oxide Nanoparticles Embedded with Annona Reticulata Plant Extract for Cervical Cancer Applications", Journal of Chemical and Pharmaceutical Sciences, SPB Pharma Society, Special Issue 8, pp. 54-62, June 2017. (Scopus-indexed, SNIP: 0.353)
  24. C. Joshitha (RS/ECE), B. S. Sreeja (Faculty/ECE), S. Sasi Princy (RS/ECE), S. Radha (Faculty/ECE), "Efficiency Enhanced Novel 3T heads V-beam Microactuator for Low Power Applications", Microsystem Technologies, Springer, June 2017 (Published online), vol. 23 (12), pp. 5797--5804, December 2017. (IF:1.195, Thomson Reuters)
  25. P. Nirmala (RS/ECE), R. Kishore (Faculty/ECE), "Multi sensor image fusion for surveillance applications using hybrid image fusion algorithm", Multimedia Tools and Applications, pp. 1-32, June 2017 (Published online). DOI: [10.1007/s11042-017-4895-3](https://doi.org/10.1007/s11042-017-4895-3). (IF:1.530, Thomson Reuters)
  26. R. Kiruthika (RS/ECE), S. Kirubaveni (Faculty/ECE), M. Sudha (RS/ECE) and S. Radha (Faculty/ECE), "Design, Simulation and Optimization of ZnO Nanorod for Energy Harvesting Application", Research Journal of Pharmaceutical Biological and Chemical Sciences, vol.8, pp. 23-26, June 2017. (Scopus-indexed, SJR: 0.221, SNIP: 0.432)
  27. G. Annalakshmi (RS/ECE), S. Sakthivel Murugan (Faculty/ECE), P. Venugopal (Faculty/Maths), V. Swetha (UG ECE 2012-2016 batch), K. S. Vaishali (UG ECE 2012-2016 batch), "Coherence analysis of ambient noise in shallow water for underwater communications", Journal of Marine Science and Technology, vol. 25, no.3, pp. 311-318, 2017.
  28. V. Angayarkanni (RS/ECE) and S. Radha (Faculty/ECE), "Feature based fall detection system for elders using compressed sensing in WWSN", Wireless Networks, Springer,

- July 2017 (Published online). DOI: 10.1007/s11276-017-1557-3. (IF: 1.584, Thomson Reuters)
29. V. Angayarkanni (RS/ECE), V. Akshaya and S. Radha (Faculty/ECE), “Design of a Compressive Sensing based Fall detection system for elderly using WSN”, Springer's Wireless Personal Communication, August 2017 (Published online). DOI: 10.1007/s11277-017-4876-x. (IF:0.951, Thomson Reuters)
  30. V. Angayarkanni (RS/ECE) and S. Radha (Faculty/ECE), “Quantization and Security Enabled Compressive Video CODEC for WSN”, Springer’s Multimedia tools and applications, September 2017 (Published online). DOI: 10.1007/s11042-017-5140-9. (IF:1.530, Thomson Reuters)
  31. S. Kirubaveni (Faculty/ECE), S. Radha (Faculty/ECE), M. Sudha (RS/ECE), “Analysis and design of power conditioning circuit for piezoelectric vibration energy harvester”, IET Science, Measurement & Technology, vol. 11, no. 6, pp. 723-730, Sep 2017 (IF: 1.263, Thomson Reuters).
  32. P. Vijayalakshmi (Faculty/ECE), B. Ramani (Faculty/ECE), M. P. Actlin Jeeva (RS/ECE), T. Nagarajan (Faculty/IT), “A Multilingual to Polyglot Speech Synthesizer for Indian Languages Using a Voice-Converted Polyglot Speech Corpus”, Circuits, Systems and Signal Processing, Sep 2017 (Published online), DOI: 10.1007/s00034-017-0659-6 (IF:1.694, Thomson Reuters).
  33. Trevor S. Bird, V. Lingasamy (RS/ECE), K. T. Selvan (Faculty/ECE), H. Sun “Improved Finite Range Gain Formula for Open Ended Rectangular Waveguides and Pyramidal Horns”, IET Microwaves, Antennas & Propagation, vol. 11, no. 14, pp. 2054–2058, November 2017. (IF: 1.187, Thomson Reuters)
  34. R. Ponuma (RS/ECE) and R. Amutha (Faculty/ECE), “Compressive sensing based image compression-encryption using Novel 1D-Chaotic map”, Multimedia Tools and Applications, November 2017 (Published Online). DOI: 10.1007/s11042-017-5378-2, (IF:1.530, Thomson Reuters)
  35. D. Ramkumar (RS/ECE), C. Annadurai (Faculty/ECE), K. Nirmaladevi (Faculty/KEC), “Continuous authentication consoles in mobile ad hoc network (MANET)”, Cluster Computing, November 2017 (Published online), DOI: <https://doi.org/10.1007/s10586-017-1386-2>. (IF: 2.040, Thomson Reuters)
  36. R. Rajesh (RS/ECE), C. Annadurai (Faculty/ECE), K. Nirmaladevi (Faculty/KEC), “Performance enhancement of IPv6 low power wireless personal area networks (6LoWPAN) by Lamport’s algorithm”, Cluster Computing, November 2017 (Published online), DOI: 10.1007/s10586-017-1324-3. (IF: 2.040, Thomson Reuters)
  37. S. Aasha Nandhini (PDF/ECE), R. Hemalatha (Faculty/ECE), S. Radha (Faculty/ECE), K. Indumathi (PG-CS 2015-2017 batch), “Web Enabled Plant Disease Detection System for Agricultural Applications using WMSN”, Springer’s Wireless Personal Communications, pp.1-16, December 2017 (Published Online). DOI: 10.1007/s11277-017-5092-4. (IF: 0.951, Thomson Reuters)
  38. E. Manikandan (RS/ECE), B. S. Sreeja (Faculty/ECE), S. Radha (Faculty/ECE), Abhishek Gupta, Goutam Rana, S. Prabhu, “Laser Patterning of Thin Film Copper and ITO on Flexible Substrates for Terahertz Antenna Applications”, JLMN-Journal of Laser Micro/Nanoengineering, vol. 12, no. 3, pp. 313-320, 2017 (IF: 0.759, Thomson Reuters)

39. P. T. Vasanth Raj (RS/ECE), K. S. Vishvakshenan (Faculty/ECE), "Performance of image transmission over MC-CDMA based on super resolution technique", *Cluster Computing*, Springer, December 2017 (Published online), DOI: <https://doi.org/10.1007/s10586-017-1537-5>. (IF: 2.040, Thomson Reuters)
40. S. Shoba (RS/ECE), R. Rajavel (Faculty/ECE), "Image Processing Techniques for Segments Grouping in Monaural Speech Separation", *Circuits, Systems, and Signal Processing*, December 2017 (Published online), DOI: <https://doi.org/10.1007/s00034-017-0728-x> (IF:1.694, Thomson Reuters).
41. P. Nirmala (RS/ECE), R. Kishore (Faculty/ECE), "Infrared and visible image fusion using discrete cosine transform and swarm intelligence for surveillance applications", *Infrared Physics & Technology*, vol. 88, pp. 13-22, Jan 2018. (IF:1.827, Thomson Reuters)
42. M. Sudha (RS/ECE), S. Radha (Faculty/ECE), S. Kirubaveni (Faculty/ECE), R. Kiruthika (RS/ECE), R. Govindaraj (SRF/SSNRC), N. Santhosh (RS/SSNRC), P. Ramasamy (Dean/Research/SSNRC), "Effect of Precursor Concentration on Structural, Morphological, and Optical Properties of ZnO Thin-Filmed Sensor for Ethanol Detection", *IEEE Transactions on Nanotechnology*, vol. 17, no. 1, pp. 169-176, Jan; 2018 (IF: 2.485, Thomson Reuters)
43. I. Divya (RS/ECE), K. Muthumeenakshi (Faculty/ECE), S. Radha (Faculty/ECE), "Statistical Analysis on Ambient RF Energy Harvesting for Low Power Wireless Applications", *International Journal of Communications System*, Wiley, February 2018 (Published online), DOI: [10.1002/dac.3538](https://doi.org/10.1002/dac.3538). (IF: 1.066, Thomson Reuters)
44. K. Ashwini (RS/ECE), R. Amutha (Faculty/ECE), "Compressive sensing based simultaneous fusion and compression of multifocus images using learned dictionary", *Multimedia Tools and Applications*, February 2018 (Published Online). DOI: [10.1007/s11042-018-5824-9](https://doi.org/10.1007/s11042-018-5824-9). (IF:1.530, Thomson Reuters)
45. R. Kalidoss (Faculty/ECE), M. Saravanan (PT-RS/ECE), K. Manikannan (RS/ECE), "Analytic Hierarchy Processes for Spectrum Sharing in 5G New Radio Standard", *Springer's Wireless Personal Communications*, pp.1-17, February 2018 (Published Online). DOI: [10.1007/s11277-018-5467-1](https://doi.org/10.1007/s11277-018-5467-1). (IF: 0.951, Thomson Reuters)
46. K. A. Karthigeyan (RS/ECE), Premanand V. Chandramani (Faculty/ECE), "Study and analysis of DR-VCO for rad-hardness in type II third order CPLL", *Microelectronics Reliability*, Elsevier, (Published online), vol. 82, pp. 190-196, March 2018. DOI: <https://doi.org/10.1016/j.microrel.2018.01.018> (IF: 1.623, Thomson Reuters).
47. P. D. Selvam (RS/ECE), K. S. Vishvakshenan (Faculty/ECE), "Mutual information of massive MIMO systems on block Rayleigh-faded channels", *Springer's Cluster Computing - The Journal of Networks, Software Tools and Applications*, March 2018 (Published online). DOI: [10.1007/s10586-018-2509-0](https://doi.org/10.1007/s10586-018-2509-0) (IF: 2.040, Thomson Reuters)
48. M. Sudha (RS/ECE), S. Radha (Faculty/ECE), S. Kirubaveni (Faculty/ECE), R. Kiruthika (RS/ECE), R. Govindaraj (SRF/SSNRC), N. Santhosh (RS/SSNRC), "Experimental study on structural, optoelectronic and room temperature sensing performance of nickel doped ZnO based ethanol sensors", *Solid State Sciences*, Elsevier, (Published online), vol. 78, pp. 30-39, April 2018. DOI: <https://doi.org/10.1016/j.solidstatesciences.2018.02.004> (IF: 1.811, Thomson Reuters)

49. M. Bala Subramanian (RS/Physics), C. Joshitha (RS/ECE), B. S. Sreeja (Faculty/ECE), Prita Nair (Faculty/Physics), "Multiport RF MEMS switch for satellite payload applications", *Microsystem Technologies*, Springer, Volume 24, Issue 5, pp 2379-2387, May 2018, DOI : <https://doi.org/10.1007/s00542-017-3675-3>. (IF: 1.195, Thomson Reuters)
50. J. Florence Gnana Poovathy (RS/ECE), S. Radha (Faculty/ECE), V. Suganesh (PG-CS 2014-2016 batch), "Non-iterative CS recovery algorithm for surveillance applications: subjective and real-time experience", *Springer's Multidimensional Systems and Signal Processing*, May 2018 (Published online), pp. 1-12. DOI: <https://doi.org/10.1007/s11045-018-0584-2>. (IF: 1.365, Thomson Reuters)
51. P. Nirmala (RS/ECE), R. Kishore (Faculty/ECE), "Efficient Multi Focus Image Fusion Technique Optimized Using MOPSO for Surveillance Applications", *International Journal of Intelligent Information Technologies*, IGI Global, May 2018 (Published online), vol. 14, issue 3, pp. 18-37, July 2018. (Scopus-indexed, SJR: 0.323, SNIP: 1.079)
52. P. D. Selvam (RS/ECE), K. S. Vishvakshnan (Faculty/ECE), R. Kalidoss (Faculty/ECE), "Optimized and low-complexity power allocation and beamforming with full duplex in massive MIMO and small-cell networks", *Springer's Journal of Supercomputing*, May 2018 (Published online). DOI: [10.1007/s11227-018-2400-z](https://doi.org/10.1007/s11227-018-2400-z), (IF: 1.326, Thomson Reuters)
53. S. Deepa Nivethika (RS/ECE), B. S. Sreeja (Faculty/ECE), E. Manikandan (RS/ECE), S. Radha (Faculty/ECE), "A stretchable smart and highly efficient radio frequency antenna on low cost substrate", *Microwave and Optical Technology Letters*, pp. 1798-1803, May 2018 (Published online). DOI: <https://doi.org/10.1002/mop.31242>, vol. 60, issue 7, July 2018. (IF: 0.731, Thomson Reuters)

#### National Journals:

1. P. Janani (PG-VLSI 2013-2015 batch), S. Sakthivel Murugan (Faculty/ECE), "Design and performance analysis of boost converters in an energy harvesting system for underwater applications using sea water in microbial fuel cell", *Indian journal of Geo-Marine Sciences*, vol.46, no.11, pp. 2241 -2249, November 2017. (IF: 0.172, Thomson Reuters)
2. P. Janani (PG-VLSI 2013-2015 batch), S. Sakthivel Murugan (Faculty/ECE), "Implementation of sea sand in microbial fuel cell for an energy harvesting system using LTC for underwater applications", *Indian Journal of Geo-Marine Sciences*, vol.47, no.4, pp 884 -889, April 2018. (IF: 0.172, Thomson Reuters)

#### International Conferences:

1. M. Maanasa (UG-ECE 2013-2017 batch), V. Ishwarya (UG-ECE 2013-2017 batch), N. Hemapriya (UG-ECE 2013-2017 batch), L. Nandita (Faculty/ECE), "Transmit Signal Characterization of Generalized Frequency Division Multiplexing", in the Proc. of IEEE TenSymp (Region 10 Symposium) 2017, 14-16 July 2017, Cochin, India.
2. R. Jansi (RS/ECE), R. Amutha (Faculty/ECE), D. Priyadarshini (UG ECE 2014-2018)

- batch), L. Saranya (UG ECE 2014-2018 batch) and B. Varshini (UG ECE 2014-2018 batch), "Medical Activity Monitoring for Elderly People using Wearable Wrist Device," In IEEE International Conference on Power, Control, Signals and Instrumentation Engineering (ICPSCI 2017), Saveetha Engineering College, Chennai, pp. 342-346, 21 & 22, September 2017.
3. Supreeta Venkatesan (UG-ECE 2014-2018 batch), S. Varsha (UG-ECE 2014-2018 batch), N. Roshne (UG-ECE 2014-2018 batch), Dr. A. Jawahar (Faculty/ECE), "Design and Implementation of an Automated Security System using Twilio Messaging Service" in the Proc. of ICON-SONICS 2017, pp. 59 - 63, held at Yogyakarta, Indonesia during 08-10 November 2017.
  4. M. Akila (RS/ECE), P. Anusha (UG-ECE 2015-2019 batch), M. Sindhu (UG-ECE 2015-2019 batch), K. T. Selvan (Faculty/ECE), "Examination of PSO, GA-PSO, ACO algorithms for the design optimization of printed antennas", in the proceedings of Applied Electromagnetics Conference (AEMC) 2017 IEEE, Aurangabad, December 19-22, 2017.
  5. R. Poorani (UG-ECE 2014-2018 batch), G. Pradeep (UG-ECE 2014-2018 batch), S. Joseph Gladwin (Faculty/ECE), R. Rajavel (Faculty/ECE), "Automated Indoor Waste Management System Employing Wavefront Algorithm and Received Signal Strength Indicator Values-based Mobile Robot", IEEE Region 10 Humanitarian Technology Conference (R10-HTC), 21 - 23 Dec 2017, Dhaka, Bangladesh.
  6. Anil Kumar Vadathya (IITM), Saikiran Cholleti (IITM), Gautham Ramajayam (NIT, Trichy), K. Vijayalakshmi (UG-ECE 2015-2019 batch), Kaushik Mitra (IITM), "Learning Light Field Reconstruction from a Single Coded Image" in the Proc. of Asian Conference on Pattern Recognition (ACPR) 2017, pp.1-7, arXiv:1801.06710v1 [cs.CV] 20 Jan 2018.
  7. Nishanth Vimallesh (UG-ECE 2014-2018 batch), M. Gulam Nabi Alsath (Faculty/ECE), "Design and Implementation of an Interactive Road Safety System for Young Bikers", in the Proc. of 4th IEEE International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB-18), pp. 152 - 155, held at Prathyusha Engineering College, Chennai during 27-28 February 2018.
  8. B. Pranamika (UG-ECE 2015-2019 batch), M. Gulam Nabi Alsath (Faculty/ECE), R. P. Saranya (UG-ECE 2015-2019 batch), Gayathri (UG-ECE 2015-2019 batch), Shruti Penumatsa (UG-ECE 2011-2015 batch), Radhika Prasad (UG-ECE 2011-2015 batch), "Design of a Single Layer Dual Band Reflectarray Antenna" in the Proc. of 4th IEEE International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB-18), pp. 185 - 188, held at Prathyusha Engineering College, Chennai during 27-28 February 2018.
  9. K. Pushpalatha (UG-ECE 2015-2019 batch), S. Rajalakshmi (UG-ECE 2015-2019 batch), B. Pranamika (UG-ECE 2015-2019 batch), M. Gulam Nabi Alsath (Faculty/ECE), "Design of Combined UWB and MIMO UWB Antenna for Mobile Terminals" in the Proc. of 4th IEEE International Conference on Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (AEEICB-18), pp. 198 - 202, held at Prathyusha Engineering College, Chennai during 27-28 February 2018.
  10. Rapuru Srinithya (UG-ECE 2014-2018 batch), E. Velkani (UG-ECE 2014-2018 batch), M. Gulam Nabi Alsath (Faculty/ECE), S. Kirubaveni (Faculty/ECE), "Design and

- Implementation of Microwave Based Ethanol Sensor”, International Conference on Innovations & Discoveries in Science, Engineering & Technology (ICIDSET-18), held at KCG College of Technology during April 17-18, 2018. (**Best Paper Award**)
11. A. Rekha (UG-ECE 2014-2018 batch), Sowmya, Bhatraju (UG-ECE 2014-2018 batch), S. Srivaishnavi (UG-ECE 2014-2018 batch), N. Venkateswaran (Faculty/ECE), “Real-time Haze removal for visual surveillance”, International Conference on Recent Trends in Engineering and Technology (ICRTET - 2018), held at St. Joseph’s Institute of Technology during May 4-5, 2018.
  12. A. Ruby Roselin (PG-AE 2015-2017 batch), A. Jawahar (Faculty/ECE), “Smart Agro System Using Wireless Sensor Networks”, in the Proc. of the International Conference on Intelligent Computing and Control Systems (ICICCS) organized by Vaigai College of Engineering, Technical Sponsor IEEE Computer Society, June 15-16, 2017, pp. 400-403.
  13. M. Sudar Devi (PG-AE 2015-2017 batch), M. Saketh (SAMEER), K. Muthumeenakshi (Faculty/ECE), “Design of Costas Loop for Carrier Recovery Mechanism of BPSK Modulation”, International Conference on Intelligent Computing and Control Systems (ICICCS 2017), 15-16 June, 2017, Vaigai College of Engineering, Madurai, Tamil Nadu.
  14. M. Somasekar (PT-RS/ECE), S. Sakthivel Murugan (Faculty/ECE), S. K. Pradeesha (PG-AE 2015-2017 batch), N. Padma priya (Faculty/Mathematics), “A Survey on Fuzzy C Means algorithm using Empirical mode Decomposition for Underwater Image Processing”, in Proc. of the 5th International Conference on Ship and Offshore Technology ICSOT 2017, 7-8 December 2017, IIT Kharagpur, India.
  15. R. Kiruthika (RS/ECE), E. Priyadharshini (PG-AE 2016-2018 batch), S. Kirubaveni (Faculty/ECE), S. Radha (Faculty/ECE), “Fabrication and Characterization of ZnO nanostructured thin film piezoelectric sensor for accelerometer application”, International Conference on Innovations & Discoveries in Science, Engineering and Technology (ICIDSET-18) organized by KCG College of Technology, April 17-18, 2018.
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  23. R. Shanthapriya (RS/ECE), V. Vaithianathan (Faculty/ECE), “ECG-based Secure Healthcare Monitoring System in Body Area Networks”, IEEE sponsored 4<sup>th</sup> International Conference on Biosignals, Images and Instrumentation, SSN College of Engineering, pp. 104-109, March 22-24, 2018.
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  28. S. Deepa Nivethika (RS/ECE), B. S. Sreeja (Faculty/ECE), E. Manikandan (RS/ECE), S. Radha (Faculty/ECE), “A Smart Reconfigurable Radio Frequency Antenna on a reversibly deformable Lycra substrate”, 2<sup>nd</sup> International conference on Frontiers in Engineering, Applied Sciences and Technology (FEAST’18), NIT, Trichy, April 27-28, 2018.

#### National Conferences:

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3. A. Roja (PG-AE 2016-2018 batch), S. Joseph Gladwin (Faculty/ECE), “IOT based Home Automation for People with Multiple Disorders”, National Conference on Information and Communication Technologies NCICT - 2018, pp. 1-4, SSN College of Engineering, April 6, 2018.
4. J. Shiny Christobel (PG-CS 2015-2017 batch), C. Vinoth Kumar (Faculty/ECE), “Feature Based Breast Cancer Detection using Discrete Wavelet Transform from Mammographic Images”, International Journal of Emerging Technology in Computer Science & Electronics (IJETCSE), ISSN: 0976-1353, Vol. 24, no. 9, pp. 124-129, June 2017.
5. E. Manikandan (RS/ECE), B. S. Sreeja (Faculty/ECE), S. Radha (Faculty/ECE), Diwakar (RS/Chemistry), A. Murugesan (Faculty/Chemistry), “Terahertz Dielectric Characterization of Polyimide”, National Conference on Emerging Trends in Smart Materials (NCETSM'18), SSN College of Engineering, January 2018. (**Best Paper Award**)
6. E. Manikandan (RS/ECE), B. S. Sreeja (Faculty/ECE), S. Radha (Faculty/ECE), “Microfabrication of Terahertz Component by Laser Ablation”, National Photonics Symposium (NPS-2018), Cochin University of Science and Technology, Cochin during February 27 to March 1, 2018 (**Best Paper Award**)
7. R. Indhu (RS/ECE), S. Radha (Faculty/ECE), V. Sathiesh Kumar, B. S. Sreeja (Faculty/ECE), E. Manikandan (RS/ECE), “Study on Cholesterol contents detection using Laser Induced Breakdown Spectroscopy”, National Photonics Symposium (NPS-2018), Cochin University of Science and Technology, Cochin during February 27 to March 1, 2018.