

SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

Department of Electronics & Communication Engineering

Faculty Publications

(Academic Year :June 2018 to May 2019)

INTERNATIONAL JOURNALS

1. J. Florence GnanaPoovathy, · S. Radha, Hardware Implementation of Enhancement Embedded Reduced Runtime Recovery Algorithm for Compressively Sensed Images, Wireless Personal Communications, June 2018, PP. 3 – 23.
2. Kiruthika.R ,Priyadharshini.E , Kirubaveni.S , Radha.S, " Fabrication And Characterization Of Zno Nanostructured Thin Film Piezoelectric Sensor For Accelerometer Application ", International Journal of Pure and Applied Mathematics,118(24),1-9, June 2018.
3. SudhaMurugesan, RadhaShankararajan, KirubaveniSavarimuthu, "Fabrication Of Nickel Doped Zno/Pedot: Pss Schottky Diode Based Ultraviolet Photodetector", International Journal of Pure and Applied Mathematics, 118(24),1-8, June 2018.
4. Indhu R RS/ECE, Anni Steffi Mercy J PG/VLSI , Shreemathi K.M PG/VLSI , Dr.S.RadhaProf&Head/ECE, Dr.S. Kirubaveni ASP/ECE, Dr.B.SSreeja ASP/ECE, published a paper titled “Design of a Filter using Array of Pillars for Particle Separation”, Material Today Proceeding, Springer, vol.5, no.4, pp.10889-10894, June 2018.
5. Lokeswari V. (Part-Time Research Scholar), ShomonaGracia J. (Faculty/CSE), Rajavel R. (Faculty/ECE), “Parallelized Classification of Cancer Sub-types from Gene Expression Profiles Using Recursive Gene Selection”, Studies in Informatics and Control, Vol. 27, No. 2 pp. 213-222, June 2018, (Thomson Reuters IF : 1.020)
6. NirmalaParamanandham, Kishore Rajendiran, “Swarm intelligence based image fusion for noisy images using consecutive pixel intensity” Multimedia Tools and Applications, Springer, pp. 1-19, Published online June 2018, IF-1.41, Unpaid, Abroad, <https://doi.org/10.1007/s11042-018-6233-9>
7. Arun V(Faculty AU-MDU), KarlMarx L.R.(Faculty/TCE), Jegadish K. J. Kumar(Faculty SSNCE), and Christy C. Vimlitha(PG Scholar/AU-MDU), “N-Shaped Frequency Reconfigurable Antenna with Auto Switching Unit, Applied Computational electromagnetics society journal, Vol 33, Number 6, June 2018, pp 710-713,ISSN: 1054-4887, Unpaid, Abroad,(ISI Web of Science Impact factor - 0.45)

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9. K. Ashwini (RS/ECE), R. Amutha (Faculty/ECE), "Fast and secured cloud assisted recovery scheme for compressively sensed signals using new chaotic system", Springer's Multimedia Tools and Applications, pp. 1-26, June 2018 (Published online). DOI: 10.1007/s11042-018-6112-4 (Thomson Reuters, IF: 1.530)
10. R. Jansi (RS/ECE), R. Amutha (Faculty/ECE), "A novel chaotic map based compressive classification scheme for human activity recognition using a tri-axial accelerometer", Springer's Multimedia Tools and Applications, pp.1-20, June 2018 (Published online). DOI: 10.1007/s11042-018-6117-z (Thomson Reuters, IF: 1.530)
11. S.DeepaNivethika, B.S.Sreeja, E.Manikandan, S.Radha, "A stretchable smart and highly efficient radio frequency antenna on low cost substrate",Microwave and Optical Technology Letters, <https://doi.org/10.1002/mop.31242>, Vol.60, Issue 7, July, 2018, Pages 1798-1803 (IF: 0.948)
12. Indhu R, Radha S, Manikandan E, Sreeja B S, Ravi Nathuram Bathe, "Micromachining of biocompatible polymer substrate for cancer cell separation applications", Microsystem Technologies, DOI: 10.1007/s00542-018-4073-1, 27th July 2018, Thomson Reuters (impact factor- 1.581).
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14. S. Annapoorani and Jayaparvathy. R,"A Review of Hybrid Converters for DC-Based Renewable Energy Nanogrid Systems" ARPJ Journal of Engineering and Applied Sciences, Vol 13, No.14, July 2018 pp 4317- 4323 (ISSN 1819-6608 (Scopus Indexed Citescore :0.37, H-Index 17)
15. Alsath, M.G.N. (Faculty/SSN), A. Henridass (RS/SSN), Y.P. Selvam (RS/CEG), K. Malathi (Faculty/CEG), S. Sangeetha (RS/CEG), K. Saffrine (RS/CEG), S. Ramprabhu (Faculty/SSN), S. K. Palaniswamy (Faculty/SRM), N. Rajesh (Faculty/VEC), "An Integrated Tri-band/UWB Polarization Diversity Antenna for Vehicular Networks," IEEE Transactions on Vehicular Technology, vol. 67, no.7, pp. 5613–5620, Jul. 2018; IF: 4.088 (Thomson Reuters), doi: 10.1109/TVT.2018.2806743, ISSN: 0018-9545, Unpaid, Abroad.

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19. S.Harika (Research Scholar),, Dr.R.Seyezhai (Faculty EEE), Dr.A.Jawahar (Faculty ECE), "A Review of Unidirectional AC-DC Converter Topologies For Level-1 Charging of Electric Vehicles" International Journal of Pure and Applied Mathematics, Volume 120, No. 6 2018, pp. 10853-10873, Aug 2018.
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21. J. Benita & R. Jayaparvathy, "Block Allocation Strategy for Multiple Input Multiple Output MIMO)–Orthogonal Frequency Division Multiple Access (OFDMA) System, Wireless Personal Communications, Springer, vol.101, no. 3, pp. 1201-1219, Aug 2018. Thomson Reuters IF :0. 951, H-Index 34(unpaid)
22. S. Kingsly (RS/CEG); K. Malathi (Faculty/CEG); Alsath, M.G.N(Faculty/SSN); A. K. Shrivastav (Faculty/SEC); S. Subbaraj (RS/CEG); Y. P. Selvam (RS/CEG); S. Ramprabhu (Faculty/SSN); YVR Rao (Faculty/CEG); "Compact Frequency and Bandwidth Tunable Bandpass-BandstopMicrostrip Filter," IEEE Microwave and Wireless Component Letters, vol. 28, no. 9, pp. 786-788, Sep. 2018; IF: 2.169 (Thomson Reuters), doi:10.1109/LMWC.2018.2858005, ISSN: 1531-1309, Unpaid, Abroad.

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31. R. Rajesh, C. Annadurai, K. Nirmaladevi, "Low power device coordination in internet of things environment using analytic hierarchy process model", Concurrency and Computation: Practice and Experience – Wiley Oct.2018 (Online). Impact factor 1.114. Unpaid Abroad.

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43. R. Indhu (RS/ECE), S. Radha (Faculty/ECE), V. Sathiesh Kumar (MIT/Chennai), E. Manikandan (RS/ECE), B. S. Sreeja (Faculty/ECE), J. Sumathi (MIT/Chennai), "Study on Cholesterol Contents Using Laser Induced Breakdown Spectroscopy", *Sensor Letters*, vol. 16, no. 12, pp. 951-954, December 2018. (Scopus Indexed, SJR: 0.17)
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3. Arun Kumar Balasubramanian (Student - PG) and SakthivelMuruganSanthanam (Faculty - ECE), "Energy harvesting system using seawater activated battery for underwater applications" in Proc. of India's 2nd Tech Surge, Technology and Innovation for Sustainable Fishing (TISF) 2018, organized by Marine Technology Society – India Section, 10th August 2018, Chennai.
4. Karthigeyan K.A. (Research Scholar, ECE), PremanandVenkateshChandramani (Faculty, ECE), "Study of VCO delay cell topologies in a 3-stage DR-VCO for radiation hardening", Conference on Radiation Effects on Components and Systems (RADECS) September 16-21, 2018, SvenskaMassan Congress Centre, Gothenburg, Sweden
5. SasiPrincy S, E.Manikandan, Sreeja B S, &RadhaS, "Design of Multi-band Terahertz Metamaterial", "Optical Society of India - International Symposium on Optics" held at Indian Institute of Technology, Kanpur from 20th to 22nd September, 2018.
6. Sakthivel M. Santhanam (Faculty - ECE), "Studies on water column nutrient distribution and sound profile variations along coastal region of India", 176th Meeting of the Acoustical Society of America, 5-9, November 2018, Victoria, Canada.
7. Sakthivel M. Santhanam (Faculty - ECE) and Somasekar K (Research Scholar - PT), "Segmentation of underwater acoustic images by FCM with EMD", 176th Meeting of the Acoustical Society of America, 5-9 November 2018, Victoria, Canada.

8. Haarika Musunuru (PG -CS) and N.Venkateswaran “Optimization and Simulation of Band Pass Filter at 28GHz for Millimeter Wave Communication” in the International Conference on Mathematical Computer Engineering (ICMCE-2018), Chennai during 23-24 November 2018.
9. Janani Aiyer (PG -BME), Swetha K.V (PG -BME) , Aniruddhbalaji (Faculty -BME), R.Nithya (Faculty -BME) and N.Venkateswaran “Detection of Diabetic Retinopathy in Retinal Fundus Images using Convolutional Neural Networks” in the International Conference on Mathematical Computer Engineering (ICMCE-2018), Chennai during 23-24 November 2018.
10. Madura Meenakshi. (RS) R, N. Padmapriya (Faculty -MA) and N.Venkateswaran “Two Stage Fuzzy Logic based Noise Removal in Thermal Images” in the International Conference on Mathematical Computer Engineering (ICMCE-2018), Chennai during 23-24 November 2018.
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12. Kavitha Muthukrishnan (RS) and N.Venkateswaran, “Triple-band Ultra-thin Wide-angle Polarization independent Metamaterial Absorber”, International Symposium on Antennas and Propagation Department of Electronics, CUSAT Cochin, India Dec 3 - 5, 2018.
13. S. Rajkumar (PT-RS/ECE), A. Anto Amala (PG-CS 2017-2019 batch), K. T. Selvan (Faculty/ECE), “A Compact Hybrid Sierpinski Koch Fractal UWB MIMO Antenna with Pattern Diversity”, in Proc. of IEEE-INA Workshop on Electromagnetics, December 6-8, 2018, Trivandrum, India.
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15. Sukanya S, Joseph Gladwin S and Vinoth Kumar, “A Tool for Extracting Text from Scanned Documents and Convert it into Editable format”, IEEE International Conference on Vision towards Emerging Trends in Communication and Networking 2019, March 2019.
16. Keerthika N, Vinoth Kumar C and Joseph Gladwin G, “Secured Hybrid Prediction Based Reversible Watermarking For Medical Images”, IEEE International Conference on Vision Towards Emerging Trends in Communication and Networking 2019, March 2019.
17. Indumathi Uthrapathy (PG Student / SSN / CS), Ramprabhu Sivasamy (Faculty/SSN), “Optimized FSS with bandstop response for satellite applications,” IEEE 5th International Conference on Science, Technology, Engineering and Mathematics - ICONSTEM 2019, Jeppiar Engineering College, pp. 1-4, Mar. 2019

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Sciences, SRI College of Engineering and Technology , pp. 72-80, 14th to 16th March 2019.

27. Harine G (UG Student/SSN), SakthiAbirami(Research Scholar/ECE/SSNCE), Harini B(UG Student/SSN), Esther Florence S (ASP/ECE), Indulakshmi Subramanian (UG Student 2014-2018 Batch/SSN) “Design and Analysis of Novel EBG/AMC Unit cell”2019 International Conference on Advanced Computing and Communication Systems Sri Eshwar College of Engineering, Coimbatore, 16-16 March 2019 (BEST PAPER AWARD)
28. Sudharsan Sridhar(Faculty/ACT), Hemalatha R(Faculty/ECE), Radha S (Faculty/ECE), “A Survey on Hyperspectral Imaging for Mineral Exploration using Machine learning algorithms”, 2019 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), 21-23 March 2019, SSN College of Engineering, Chennai.
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39. ShanthaA(PG-II yr) , Renita J (Research Scholar), Edna Elizabeth N (Prof/ECE),"Analysis and Implementation of ECC Algorithm in Lightweight Devices", Adhiparasakthi Engineering College; Melmaruvathur, April 4-6, 2019, International Conference on Communication and Signal Processing – ICCSP' 19, 978-1-5386-7594-6/19/\$31.00 ©2019 IEEE, pp.0305-0309.
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45. Madhan (JRF/ECE), P.Kaythry (Faculty/ ECE), Raj Kumar. K (Faculty / MECH), "Study of statistical distribution and morphology of particle in polymer matrix using Foldscope imaging technique", Proceedings of International Conference on Mechanical Engineering Design 2019 at SSN College of Engg., 25 - 26th April 2019.
46. R. Indhu (RS/ECE), A. Jenifer Sofia (PG-CS 2017-2019 batch), S. Radha (Faculty/ECE), E.Manikandan (RS/ECE), "Development of Polymeric Microfluidic Chip for Particle Separation using Laser Micromachining", in Proc. of 8th International Congress on Laser Advanced Materials Processing (LAMP 2019), May 21-24, 2019, Japan.
47. Dhanalakshmi M (Junior Research Fellow) , Vimal Raj M (Research Scholar), SakthivelMurugan S (Faculty - ECE), " Feature Matching and Assessment of similarity rate on geometrically distorted side scan sonar images" in the proceedings of TEQIP - III sponsored International Conference on Microwave Integrated Circuits, Photonics and Wireless Networks (IMICPW - 2019), held at National Institute of Technology, Trichy, between 22 -24, May 2019.

National conferences

1. P.Kaythry (Faculty ECE), P.Sangeetha (Faculty Civil), A. Madhan (JRF ECE) "Study on shape and texture of different types of fine aggregate used in concrete using Foldscope", DBT sponsored National conference on Microcosmos (NCM'19), March 23rd, 2019, DBRAIT, Port Blair, India.
2. Yokesh V (RS/SSN), Alsath, M.G.N (Faculty/SSN), "Design of a Via – less Differential Signal Transmission Line based on Metamaterial Characteristics," Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Apr. 1 & 2, 2019 (PP. 60 -62)
3. Devi Sowjanya P (RS/SSN), Alsath, M.G.N (Faculty/SSN), Kirubaveni S (Faculty/SSN), "Proximity fed transparent antenna for WLAN applications," Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Apr. 1 & 2, 2019 (PP. 70 -72)

4. Priyadharshini S(M.E/CS), Mohan C (JRF/ECE) and Esther Florence S (ASP/ECE) “Compact Design of UWB Truncated Circular Monopole Antenna” 5th National Conference on Information and Communication Technologies (NCICT - 2019) SSNCE, Chennai, India, April 1 & 2, 2019 (PP. 89 -91)
5. Dinesh N M, Akshara Viswanathan M, Michele Shaun Morais, (UG Students/CEG), Malathi Kanagasabai (Faculty/CEG), Alsath, M.G.N (Faculty/SSN), Rajesh N. (Faculty/VEC), “Low Profile Modified Loop Antenna for WBAN Applications,” Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Apr. 1 & 2, 2019 - “Best Paper Award” (PP. 102 -105)
6. Abinaya Ravichandran, Malathi Kanagasabai, Cibita Giritharan (UG Students/CEG), Padmathilagam Sambandam (RS/SSN),Malathi Kanagasabai (Faculty/CEG), Rajesh N. (Faculty/VEC), Alsath, M.G.N (Faculty/SSN), “Compact Textile Ultra-Wide Band antenna for Wearable Applications,” Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Apr. 1 & 2, 2019 (PP. 106 -109)
7. Gollamudi Lakshmi Janaki (UG Student / SSN), Harini C (UG Student / SSN), Madhumitha P K (UG Student / SSN) and Ramprabhu S (Faculty/SSN), “Smart Doorbell System,” Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Chennai, Apr. 1 & 2, 2019. (PP. 110 -111)
8. Aiswarya Narayan (UG Student), Akshaya.J (UG Student), Harini Gauri. B (UG Student), Mahima. S (UG Student), K.Muthumeenakshi (Faculty - ECE), “Design and Development of Hybrid Energy Harvester for Low Power Applications”, Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Apr. 1 & 2, 2019. (PP. 169 -172)
9. Nadeen Naushad (PG-VLSI 2017-2019 batch), K. K. Nagarajan (Faculty/ECE), “Software and Hardware based Codesign of Quantum Algorithms”, in Proc. of 5th National Conference on Information and Communication Technologies, pp. 177-181, April 1-2, 2019, SSN College of Engineering, Chennai. (PP. 177 - 181)
10. S. Radha (Faculty/ECE), N. Bharath Raj (UG-ECE 2015-2019 batch), S. Brathindara (UG-ECE 2015-2019 batch), R. Kashyap (UG-ECE 2015-2019 batch), “Study on the feasibility of harvesting energy from a piezoelectric and triboelectric nanogenerator”, in Proc. of 5th National Conference on Information and Communication Technologies, pp. 182-186, April 1-2, 2019, SSN College of Engineering, Chennai. (PP. 182 -186)

11. Gali Kavya Shree Sai (UG student/ ECE) , Ganapathi Ramanathan (UG student) , Manne Muddu Reshma Priya (UG Student / ECE) and P. Vijayalakshmi (Faculty/ECE), “Speech enabled virtual assistant using Image captioning” , Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Apr. 1 & 2, 2019 (PP. 194 -198)
12. Maheswari M (PG Scholar), Aruna Veeraselvam (RS/SSN), Alsath, M.G.N (Faculty/SSN), “Ultra Wide Band(UWB) Quasi Yagi antenna with dual step feeding for WBAN Application,” Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Apr. 1 & 2, 2019 (PP. 199 - 202)
13. Vinoth Kumar C, Gopinath K.P, Akshay Kumar C, Alaguraj A, Gunupati Sumadhura and Harini S, “Monitoring and Identification of Region-Growing Microalgae Biomass Quantification using Digital Image Processing”, 5th National Conference on Information and Communication Technologies (NCICT - 2019), pp. 203 – 208, SSN College of Engineering, April 1 & 2, 2019 (PP. 203 -208)
14. Yarasi Tusharika (UG Student), Dommalapati Navya (UG Student), Velkani.E (UG Student), Rapuru Srinithya (UG Student), Alsath, M.G.N (Faculty/SSN), Kirubaveni S (Faculty/SSN), “Design and Implementation of Microwave based Gas Sensor,” Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Apr. 1 & 2, 2019 (Poster ID:55)
15. Pranamika B (UG Student), Nilavathani V (UG Student), Udayaezhil S (UG Student), Alsath, M.G.N (Faculty/SSN), “Design and Implementation of a UWB Reconfigurable Filtering Bow Tie Antenna,” Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Apr. 1 & 2, 2019 (Poster ID: 56)
16. Gayathri M (UG Student / SSN), Nandha Kumar P (UG Student / SSN), Pushpalatha K (UG Student / SSN) and Ramprabhu S (Faculty/SSN), “Design and Fabrication of Compact Multiband Microstrip Patch Antenna,” Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Chennai, Apr. 1 & 2, 2019.
17. Mugeshnandha G (UG Student / SSN), Karthick G (UG Student / SSN), Nandakishore S (UG Student / SSN) and Ramprabhu S (Faculty/SSN), “Design and Fabrication of Quad band Frequency Selective Surface for Shielding Application,” Proceedings of the 5th National Conference on Information and Communication Technologies, SSN College of Engineering, Chennai, Apr. 1 & 2, 2019.