

SSN COLLEGE OF ENGINEERING
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
FACULTY PUBLICATIONS

June 2017 – May 2018

INTERNATIONAL JOURNALS

1. Saravanan Palani (Faculty/EEE), Anbuselvi Mathivanan (Faculty/ECE) and Salivahanan Sankarappan (Faculty/ECE), "An Efficient Algorithmic-Architectural Transformation of Quasi-Cyclic Non-Binary Low Density Parity Check Decoder", Journal of Computational and Theoretical Nanoscience, Vol. 14, 5844–5850, DEC' 2017.
2. Manikandan E (Research scholar ECE), Sreeja B S (Faculty-ECE), Radha S (Faculty-ECE), Abhishek Gupta, Goutam Rana, Prabhu S, 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, 2017 (Thomson Reuters-IF.0.759)
3. Manikandan E (Research scholar ECE), Sreeja B S (Faculty ECE), Radha S (Faculty ECE), "Low Cost Flexible Multiband Terahertz Planar Antennas for Bolometer Applications", Journal of Active and Passive Electronic Device, (Online Published) (Thomson Reuters) (E-SCI), Unpaid, Abroad.
4. S. Rajkumar (Research scholar/PT ECE), K.T. Selvan (Faculty / ECE) and P.H. Rao, "Compact 4-element Sierpinski-Knopp fractal UWB MIMO antenna with dual band notch," Microwave and Optical Technology Letters, Published in Online, March 2018 IF -0.731 (Thomson Reuters), Unpaid, Abroad.
5. V. Angayarkanni (Research scholar ECE), V. Akshya, S. Radha (Faculty-ECE), Design of a Compressive Sensing based Fall Detection System for Elderly using WSN, Wireless Personal Communication, August 2017. (Thomson Reuters, I.F. 0.951)
6. V. Angayarkanni (Research scholar ECE), S. Radha (Faculty-ECE), Quantization and Security Enabled Compressive Video CODEC for WSN, Multimedia Tools and Applications, Sep 2017. (Thomson Reuters, I.F 1.331)
7. V. Angayarkanni (Research scholar ECE), S. Radha (Faculty-ECE), Feature based Fall Detection System for elders using compressed sensing in WWSN, Wireless Network, July 2017. (Thomson Reuters, I.F 1.584)
8. K. Savarimuthu (Faculty-ECE), R. Sankararajan and S. Murugesan, "Analysis and design of power conditioning circuit for piezoelectric vibration energy harvester," in IET Science, Measurement & Technology, vol. 11, no. 6, pp. 723-730, 2017. IF: 1.263 (Thomson Reuters), Unpaid, Abroad.
9. Kiruthika Ramany (Research scholar ECE), Kirubaveni Savarimuthu (Faculty-ECE), Sudha Murugesan (Research scholar ECE), and Radha Shankararajan (Faculty-ECE), "Design, Simulation and Optimization Of ZnO Nanorod For Energy Harvesting Application", Research Journal of Pharmaceutical, Biological and Chemical Sciences, May–June 2017, 8(3S), Pg 23-26, ISSN: 0975-8585. IF: 0.35 (Thomson Reuters), Unpaid, Abroad.
10. S.Aasha Nandhini (PDF-ECE), R.Hemalatha (Faculty-ECE), Radha S (Faculty-ECE), K.Indumathi (PG student-CS), "Web Enabled Plant Disease Detection System for Agricultural

Applications Using WMSN”, *Wireless Personal Communication*, Springer, pp 1-16, December, 2017. DOI: <https://doi.org/10.1007/s11277-017-5092-4>, IF: 0.951 (Thomson Reuters), Unpaid, Abroad.

11. Divya.I (Research Scholar ECE), Muthumeenakshi.K (Faculty ECE) Dr. S. Radha (Faculty ECE), “Statistical Analysis on Ambient RF Energy Harvesting for Low Power Wireless Applications”, *International Journal of Communications System*, Wiley, FEB 2018, IF - 1.066, (Thomson Reuters), Unpaid, Abroad.
12. 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, January 2018. (IF: 2.485, Thomson Reuters)
13. 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)
14. Kirubaveni Savarimuthu(Faculty-ECE), Radha Sankararajan(Faculty-ECE), Gulam Nabi Alsath M(Faculty-ECE), Ani Melfa Roji M.(PG STUDENT), (2018) "Design and analysis of cantilever based piezoelectric vibration energy harvester", *Circuit World*, <https://doi.org/10.1108/CW-11-2017-00671>. (IF: 0.727), (Thomson Reuters).
15. A. Sureshkumar, S. Sundaravadivelu(FacultyECE),”Design of Solar cell Antenna (SOLAN) using Indium Tin Oxide mixed with Silver”,in *African Journal of Basic & Applied Sciences* 9(4): 216-220,Sep2017,ISSN2079-2034@IDOSIPublication,2017DOI:10.5829/idosi.ajbas.2017.216.220.
16. G. Anushiya Rachel (Research scholar), P. Vijayalakshmi (Faculty, ECE), T. Nagarajan (Faculty, IT), “Estimation of Glottal Closure Instants from Degraded Speech using a Phase-Difference-Based Algorithm”, *Computer, Speech, and Language*, Elsevier, DOI: 10.1016/j.csl.2017.05.008, vol. 46, pp. 136 - 153, Nov. 2017. (Thomson Reuters IF: 1.9)
17. Karthigeyan K.A. (Research Scholar/FT, ECE), Premanand Venkatesh Chandramani (Faculty, ECE), “Study and analysis of DR-VCO for rad-hardness in type II third order CPLL”, *Microelectronics Reliability*, Elsevier, March 2018, IF - 1.371, (Thomson Reuters), Unpaid, Abroad
18. Kanthimathi M(Research Scholar/PT, ECE), and Amutha R(Faculty-ECE), “Energy Efficient Constellation Rotation for Multiple-Symbol Differentially Encoded Communications,” *Journal of Computational and Theoretical Nanoscience*, vol. 14, no. 9, pp. 4236-4240, Sep 2017.(Scopus indexed 0.23)
19. Ponuma. R(Research scholar ECE) , Amutha. R(Faculty-ECE), “Compressive sensing based image compression-encryption using Novel 1D-Chaotic map,” *Multimedia Tools and Applications*, 2017, DOI: 10.1007/s11042-017-5378-2, (Thomson Reuters- IF:1.530), (Status: Published online November 2017).

20. Kanthimathi M(Research scholar/PT ECE) , Amutha R(Faculty-ECE),and Anusha S “Modulation Diversity for Differential Amplitude and Phase Shift Keying technique,” in the international journal of Engineering Technology Vol 7 no.1.1, pp.418-420, 2018. (Scopus Indexed)
21. Ponuma R (Research scholar ECE), Amutha R(Faculty-ECE), “Compressive Sensing and Chaos-Based Image Compression Encryption,” In Advances in Soft Computing and Machine Learning in Image Processing, pp. 373-392. Springer, Cham, 2018. (Book Chapter)
22. Kanthimathi M(Research scholar/PT ECE), Amutha R(Faculty-ECE),and Senthil Kumar K(Research scholar/PT ECE), “Energy efficiency analysis of differential cooperative algorithm in wireless sensor network,” Cluster Computing, pp. 1-9, Springer Jan 2018. (Thomson Reuters IF 2.04).
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27. 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)
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applications," *International Journal of RF and Microwave Computer-Aided Engineering*, Feb 2018. IF-0.746 (Thomson Reuters), Unpaid, Abroad.

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41. Nirmala Paramanandham(Research scholar ECE), Kishore Rajendiran(Faculty-ECE), "Infrared and visible image fusion using discrete cosine transform and swarm intelligence for surveillance applications" *Infrared Physics and Technology*, Elsevier, vol. 88, pp. 13-22, Published Online November 2017 DOI:<https://doi.org/10.1016/j.infrared.2017.11.006>, (Thomson Reuters, I.F. 1.713)
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