

SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

Department of Electronics & Communication Engineering

STUDENT PUBLICATIONS

July 2021 to June 2022

B.E. - ELECTRONICS & COMMUNICATION ENGINEERING

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SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

Department of Electronics & Communication Engineering

STUDENT PUBLICATIONS

July 2021 to June 2022

B.E. - ELECTRONICS & COMMUNICATION ENGINEERING

International Journals:

1. Ms. P. Tejaswini, (UG-ECE 2017-2021 Batch), Ms. I. Sai Deepika (UG-ECE 2017-2021 Batch), Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Development of an ROV- Undergraduate students developed inspection class ORCA ROV” in the Journal of Sea Technology, vol. 62, no. 9, pp. 20-22, September 2021. (Clarivate Analytics, IF: 0.17)
2. Dr. I. Nelson, ASP/ECE, Dr. C. Annadurai, ASP/ECE, Mr. Shriraam Venkatasubramani (UG-ECE 2017-2021 Batch), Mr. I. Yogesh (UG-ECE 2017-2021 Batch), Mr. S. Shrinivas Badri (UG-ECE 2017-2021 Batch) published a paper titled “Underwater Image Enhancement and Fish Detection” in Advances in Parallel Computing, Smart Computing and Communication Technology, IOS press, vol. 38, pp. 300-304, October 2021. DOI: 10.3233/APC210055 (Scopus Indexed)
3. Dr. C. Annadurai, ASP/ECE, Dr. I. Nelson, ASP/ECE, Mr. X. N. Ranald Nivethan (UG-ECE 2017-2021 Batch), Mr. Suraj Vinod (UG-ECE 2017-2021 Batch), Mr. M. Senthil Kumar (UG-ECE 2017-2021 Batch) published a paper titled “Implementation of IoT in Workplace Monitoring and Safety Systems” in Advances in Parallel Computing, Smart Computing and Communication Technology, IOS press, vol. 38, pp. 354-357, October 2021. DOI: 10.3233/APC210065 (Scopus Indexed)
4. Dr. I. Nelson, ASP/ECE, Dr. C. Annadurai, ASP/ECE, Ms. E. Ramya (UG-ECE 2017-2021 Batch), Ms. R. Shivani (UG-ECE 2017-2021 Batch), Ms. V. Mathusana (UG-ECE 2017-2021 Batch) published a paper titled “IoT Based Smart Energy Meter System Using Machine Learning” in Advances in Parallel Computing, Smart Computing and Communication Technology, IOS press, vol. 38, pp. 358-362, October 2021. DOI: 10.3233/APC210066 (Scopus Indexed)
5. Dr. Santi C. Pavone, University of Catania/Italy, Mr. Kesav Ravichandran, Mr. S. Palaniappan, Mr. K. Balaji Prasanna, (UG-ECE 2017-2021 batch), Dr. Loreto Di Donato, Dr. Ottavio Crisafulli, University of Catania/Italy, Dr. S. Radha, Prof &

- Head/ECE, Dr. N. Prabagarane, ASP/ECE, Dr. Gino Sorbello, University of Catania/Italy published a paper titled “Comparative analysis of machine learning and physics-based optimizations of a dual circularly polarized antenna for V2X applications” in AEU - International Journal of Electronics and Communications, pp.1-7, October 2021 (Published Online), vol. 142, 153994. (Clarivate Analytics, IF: 3.183).
6. Ms. R. Sriharini, (UG-ECE 2017-2021 Batch), Dr. N. Edna Elizabeth, Prof/ECE, Ms. D. Supriya, Mr. V. S. Surenter, Ms. S. Sneha, (UG-ECE 2017-2021 Batch) published a paper titled “IoT based multi-purpose smart fabric curtain” in Australian Journal of Electrical and Electronics Engineering, pp. 1-9, November 2021 (Published Online).(Scopus Indexed, 0.63)
 7. Ms. J. Abanah Shirley, RS/ECE, Dr. S. Esther Florence, ASP/ECE, Ms. V. Saraswathi, Ms. S. Sankarshwari, Ms. S. Sona, (UG-ECE 2014-2018 Batch) students published a paper titled “Fall detection smart-shoe enabled with wireless IoT device” in Circuit World, vol. 47(4), pp. 325-334, November 2021. (Clarivate Analytics, IF: 0.875)
 8. Ms. V. Aruna, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S.Kirubaveni, ASP/ECE, Dr. Jaume Anguera, Prof/Universitat Ramon Llull, Spain, Ms. Jessica Constance Paul, Mr. K. Ram Kumar, (UG-ECE 2017-2021 Batch) published a paper titled “Refractive Index-Based Terahertz Sensor Using Graphene for Material Characterization” in Sensors, vol. 21, 8151, pp. 1-13, December 2021. DOI: 10.3390/s21238151 (Clarivate Analytics, IF: 3.576)
 9. Ms. V. Aruna, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S.Kirubaveni, ASP/ECE, Ms. V. Pancha Durga V, (UG-ECE 2017-2021 Batch) published a paper titled “An Ultra-thin Multiband Refractive Index-Based Carcinoma Sensor Using THz Radiation” in IEEE Sensors Journal, December 2021 (Published Online). DOI:10.1109/JSEN.2021.3134663 (Clarivate Analytics, IF: 3.301)
 10. Vijayalakshmi, P., Nagarajan, T., Jayapriya, R (ME CS 2017-19), Brathindara, S., Krithika, K., Nikhilesh, N.(UG ECE 2015-19 batch), Naren Raju, N.(UG EEE 2014-18), Johanan Joysingh (RS/IT), S., Aiswarya, V.(ME CS 2016-18) , Mrinalini, K. (FT/ECE), "Development of a low-resource wearable continuous gesture-to-speech conversion system", Disability and Rehabilitation: Assistive Technology. (in press), Dec. 2021. IF-3.033
 11. Ala Khalifeh, Karthikeyan A, Barath Kumar S, Jayanth Srinivasan P (UG ECE 2016-2020), Prabagarane N, “A simulation analysis of LEDs spatial distribution for indoor visible light communication”, Wireless Personal Communication, Aug. 2021.
 12. Ms. M. Akila, RS/ECE, Ms. N. Divya, Mr. S. Abishek, UG-ECE 2017-2021 Batch students, Dr. V. Lingasamy, Senior Technical Lead/Sterlite Technologies Limited, Mr. K. Hariharan, (UG-ECE 2017-2021 Batch) student and Dr. K. T. Selvan,

- Prof/ECE published a paper titled “A Broadband Dual-Polarized Magneto-Electric Dipole Antenna Element for Low-Frequency Astronomical Arrays” in Applied Computational Electromagnetics Society Journal, vol. 37 (1), pp. 78-84, January 2022. (Clarivate Analytics)
13. Dr. S. Karthie, ASP/ECE, Ms. J. Zuvairiya Parveen, Ms. Yogeshwari, Ms. E. Venkadeshwari, (UG-ECE 2016-2020 Batch) students published a paper titled “Compact dual-mode microstrip bandpass filter based on slotted square patch resonator” in Microelectronics International, vol. 39 (2), pp. 49-57, May 2022. (Clarivate Analytics, IF: 0.758)
 14. Dr. S. Sayi Soundariya, Dr. S. Ramprabhu, ASP/ECE, Mr. G. Mugeshnandha, Mr. G. Karthick, Mr. S. Nandhakishore, (UG-ECE 2015-2019 Batch) students published a paper titled “Miniaturized Multi-band Frequency Selective Surface with Angular and Polarization Independent Characteristic” in Frequenz, pp. 1-8, May 2022 (Published online). DOI: <https://doi.org/10.1515/freq-2021-0097> (Clarivate Analytics, IF: 0.726)
 15. R. Amrish, K. Bavapriyan, V. Gopinaath (UG-ECE 2018-2022 Batch), A. Jawahar, C. Vinoth Kumar, “DDoS Detection using Machine Learning Techniques”, Journal of IoT in Social, Mobile, Analytics, and Cloud, Volume 4, Issue 1, Pages 24-32, March 2022, (ISSN: 2582-1369).

International Conferences:

1. Mr. Santosh Saranyan(UG-ECE 2017-2021 Batch students) Mr. Srivas Seshadri (UG-ECE 2017-2021 Batch students), Dr. B. Ramani, ASP/ECE presented a paper titled “Real-time Facemask Detection and Analytics” in 2021 International Conference on Automation, Control and Mechatronics for Industry 4.0 (ACMI), organized by Department of Mechatronics Engineering, Rajshahi University of Engineering & Technology (RUET), Rajshahi, Bangladesh on 08.07.2021.
2. Mr. R. Manjunathan, Ms. V. Krishni Divyadharshini, Mr. G. Bharath Vishal, (UG-ECE 2019-2023 Batch), Dr. N. Venkateswaran, Prof/ECE attended and presented a paper titled “Real-time Ship Detection and Localisation in SAR Images using Artificial Intelligence and Remote Sensing for Maritime Defense applications” in the 5th Innovators-Industry Meet on August 26-27, 2021 held at New Delhi organized by IETE.
3. Ms. S. Indu, Ms. Indu Subramanian, Ms. Aishwarya Ponni, Ms. Akilandeswari, Ms. S. Kaavya, (UG-ECE 2018-2022 Batch) Dr. P. Vijayalakshmi, Prof & Head/ECE presented & published a paper titled “Speaker identification in vehicular environment using GMM and BiLSTM”, in Proceedings of IEEE International Conference on Technology, Engineering, Management for Societal Impact using Marketing, Entrepreneurship and Talent (TEMSMET), co-hosted by Symbiosis International (Deemed University) held during December 2021.

4. Ms. S. Abirami, Mr. L. Anirudh, (UG-ECE 2017-2021 Batch) and Dr. P. Vijayalakshmi, Prof & Head/ECE, presented a paper titled “Silent speech recognition: an inversion problem” in the 8th International conference on Biosignals, Image and Instrumentation (ICBSII), 2022 organized by Department of BME, SSN CE during March 16-18, 2022.
5. Mr. R. Amrish, Mr. K. Bavapriyan, Mr. V. Gopinaath, (UG-ECE 2018-2022 Batch), Dr. A. Jawahar, Prof/ECE, Dr. C. Vinoth Kumar, ASP/ECE presented a paper titled “DDoS Detection Using Machine Learning Techniques” in the International Virtual Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2022) organized by Velammal Institute of Technology, Chennai on 28.04.2022.
6. Ms. B. Adsaiya, Ms. V. Ezhilarasi, Ms. T. Gomathi, (UG-ECE 2018-2022 Batch), Dr. C. Annadurai, Dr. S. Ramprabhu, Dr. I. Nelson, ASPs/ECE presented a paper titled “Generating Side-View Face Images from a Single-View Face Image” in the International Virtual Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2022) organized by Velammal Institute of Technology, Chennai during April 28-29, 2022.
7. Ms. X. Agasya, Ms. S. Esther Sobiya, Mr. V. Gokulakrishnan, (UG-ECE 2018-2022 Batch), Dr. C. Annadurai, Dr. S. Ramprabhu, Dr. I. Nelson, ASPs/ECE presented a paper titled “Design of Y-shaped Fractal Antenna for Satellite Application” in the International Virtual Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2022) organized by Velammal Institute of Technology, Chennai during April 28-29, 2022.
8. ECE/2021-22/INCP/18 Mr. A. Ajay, Ms. P. Harshavardhini, Ms. C. Yuvasri, UG-ECE 2018-2022 Batch students, Dr. C. Annadurai, Dr. S. Ramprabhu, Dr. I. Nelson, ASPs/ECE presented a paper titled “Design of Low Insertion Loss Narrow Band Filter for Satellite Application” in the International Virtual Conference on Artificial Intelligence, 5G Communications and Network Technologies (ICA5NT 2022) organized by Velammal Institute of Technology, Chennai during April 28-29, 2022.
9. Ms. V. Dharshini, Ms. S. Saranya, Mr. V. K. Sethuraman, (UG-ECE 2018-2022 Batch), Dr. A. Jawahar, Prof/ECE, Dr. C. Vinoth Kumar, ASP/ECE presented a paper titled “Energy Efficient Street Lighting System” in the 10th International Conference on Contemporary Engineering and Technology 2022 (ICCET) organized by Prince Shri Venkateshwara Padmavathy Engineering College, Chennai on 21.05.2022.
10. Mr. A. Pranav, (UG-ECE 2020-2024 Batch), Ms. S. Vidhyashree, RS/ECE, Dr. M. Gulam Nabi Alsath, Dr. S. Kirubaveni, ASPs/ECE presented a paper titled “Dual-Layer Beamscanning Reflectarray Antenna Operating at Ku-Band” in the National

Conference on Information and Communication Technologies organized by the Department of ECE, SSNCE during 23.02.2022.

11. Ms. N. Kavitha, RS/ECE, Ms. S. Vidhyashree, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Ms. B. Ishwarya, UG-ECE 2016-2020 Batch presented a paper titled “Design and Development of Frequency Reconfigurable Reflectarray Antenna” in the National Conference on Information and Communication Technologies organized by the Department of ECE, SSNCE during 23.02.2022.
12. Ms. V. Krishi Divya Dharshini, Ms. K. Nethra Prakash, Ms. A. Shafiya Sidrath, UG-ECE 2019-2023 Batch students, Dr. N. Venkateswaran, Prof/ECE presented a paper titled “Diagnosis of Stages of Acute Lymphoblastic Leukaemia using Image Processing and Deep Learning” at the International Conference - IETE CHENCON 2022 organized by IETE Chennai Centre held during April 22-23, 2022. pp. 116-121.
13. Ms. Charu Jain, Ms. Indu Subramanian, Ms. Meghna Govind, UG-ECE 2018-2022 Batch students, Dr. N. Venkateswaran, Prof/ECE presented a paper titled, “Artificial Intelligence and Machine Learning Based Wireless Localization” at the International Conference - IETE CHENCON 2022 organized by IETE Chennai Centre held during April 22-23, 2022. pp. 74-79.
14. Dr. S. Ramprabhu, ASP/ECE, Mr. L. Abdulla Khan, Mr. S. Nahul, Ms. K. Nandhini, Mr. Mohd Shahrukh, UG-ECE 2016-2020 Batch students presented a paper titled “Design and Fabrication of a Miniaturized Microwave Absorber with Wide Band Absorption Characteristics” in the IEEE Wireless, Antenna & Microwave Symposium - WAMS 2022 held during June 05-08, 2022 organized by NIT Rourkela, India.

National Conferences:

1. Mr. A. Pranav, UG-ECE 2020-2024 Batch, Ms. S. Vidhyashree, RS/ECE, Dr. M. Gulam Nabi Alsath, Dr. S. Kirubaveni, ASPs/ECE presented a paper titled “Dual-Layer Beamscanning Reflectarray Antenna Operating at Ku-Band” in the National Conference on Information and Communication Technologies organized by the Department of ECE, SSNCE during 23.02.2022.

SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

Department of Electronics & Communication Engineering

STUDENT PUBLICATIONS

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M.E. - APPLIED ELECTRONICS

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Department of Electronics & Communication Engineering

STUDENT PUBLICATIONS

July 2021 to June 2022

M.E. - APPLIED ELECTRONICS

International Journals:

1. Ms. B. Raagavi, (PG-AE 2018-2020 Batch), Ms. S. Swathi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Characteristics Analysis of Metamaterial Enhanced Magnetic Induction Based Underground Communication” in Wireless Personal Communications, vol. 123, pp. 1669-1685, March 2022. (Clarivate Analytics, IF: 1.061)

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M.E. - COMMUNICATION SYSTEMS

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July 2021 to June 2022

M.E. - COMMUNICATION SYSTEMS

Book Chapter:

1. Ms. U. Indumathi (PG CS 2017-2019 Batch), Dr. S. Ramprabhu, ASP/ECE published a book chapter titled “Planar Antenna: Design, Fabrication, Testing, and Application / Design and Fabrication of a simple modified Swastik FSS for Antenna Gain Enhancement” Ed. Praveen Kumar Malik, Nova Science Publisher, Newyork, pp. 219-232, September 2021.

International Journals:

1. Mr. G. Aswanth Kumar, (PG-CS 2018-2020 Batch), Dr. W. Jino Hans, ASP/ECE published a paper titled “Development of Visual-Only Speech Recognition System for Mute People” in Circuits, Systems, and Signal Processing, pp. 1-21, November 2021 (Published Online). DOI: 10.1007/s00034-021-01880-w. (Clarivate Analytics, IF: 2.225)
2. Vijayalakshmi, P., Nagarajan, T., Jayapriya, R (ME CS 2017-19), Brathindara, S., Krithika, K., Nikhilesh, N.(UG ECE 2015-19), Naren Raju, N.(UG EEE 2014-18), Johanan Joysingh (RS/IT), S., Aiswarya, V.(ME CS 2016-18) , Mrinalini, K. (FT/ECE), "Development of a low-resource wearable continuous gesture-to-speech conversion system", Disability and Rehabilitation: Assistive Technology. (in press), Dec. 2021.
3. G. Anushiya Rachel, S. Sreenidhi, (ME CS 2012-14) P. Vijayalakshmi, T. Nagarajan, “Incorporation of Happiness in Neutral Speech by Modifying Time-Domain Parameters of Emotive-Key words”, Circuits, Systems and Signal Processing, pp. 1-27, November 2021 (Published online). DOI: <https://link.springer.com/article/10.1007/s00034-021-01875-7>(Clarivate Analytics, IF: 2.25)

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M.E. - VLSI DESIGN

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M.E. - VLSI DESIGN

International Journals:

1. Dr. P. Devi Sowjanya, Amritha Vishwa Vidyapeetham, Dr. M. Gulam Nabi Alsath, ASP/ECE, Ms. G. Sudhilaya (PG-VLSI 2017-2019 Batch), Dr. S. Kirubaveni, ASP/ECE published a paper titled “Design and Development of Optically Transparent Rectenna for RF Energy Harvesting Applications” in the International Journal of Microwave and Wireless Technologies, pp. 1-8, November 2021 (Published Online), (Clarivate Analytics, IF: 1.064)
2. Dr. P. Devi Sowjanya, RS/ECE, Dr. S. Kirubaveni, ASP/ECE, Ms. G. Sudhilaya (PG-VLSI 2017-2019 Batch), Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled “Thin film based optically transparent circular monopole antenna for wideband applications” in the Analog Integrated Circuits and Signal Processing, November 2021 (Published Online), DOI: 10.1007/s10470-021-01962-4 (Clarivate Analytics, IF: 1.337)
3. J. Renita, N. Edna Elizabeth, A. Nandhini, (PG-VLSI 2018-2020 Batch) “Implementation and Performance Analysis of Elliptic Curve Cryptography using an Efficient Multiplier”, Journal of Semiconductor Technology and Science, vol. 22 (2), pp. 53-60, April 2022. (Clarivate Analytics, IF: 0.424)

SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

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RESEARCH SCHOLARS (FULL-TIME)

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| 1 | INTERNATIONAL JOURNALS | 46 |
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SSN COLLEGE OF ENGINEERING, KALAVAKKAM - 603110

Department of Electronics & Communication Engineering

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July 2021 to June 2022

RESEARCH SCHOLARS (FULL-TIME)

International Journals:

1. Dr. S. Radha, Prof & Head/ECE, Ms. A. Elakkiya, RS/ECE, Dr. B. S.Sreeja, ASP/ECE published a paper titled “Optically transparent terahertz triple-band and dual-band metamaterial absorber” in Circuit World, vol. 48, issue. 1, Jan 2021 (Published Online). Clarivate Analytics, IF: 0.875).
2. Mr. G. Iyappan, RS/SSNRC, Dr. R. Govindaraj, SSNRC, Dr. P. Ramasamy, Dean/Research, Ms. R. Kiruthika, RS/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled “Experimental Study of Parametric Dependency of ZnO Nanorods-based Vibration Sensor” in IETE Journal of Research, April 2021(Published Online). (Clarivate Analytics, IF: 2.333)
3. Ms. M. Dhana Lakshmi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Modified Restoration technique for improved visual perception of shallow underwater imagery” in Current Science, vol. 121 (1), pp. 103-108, July 2021(Clarivate Analytics, IF: 0.756)
4. Ms. M. Akila, RS/ECE, Dr. K.T. Selvan, Prof/ECE published a paper titled “On further enhancing the bandwidth of wideband RCS reduction checkerboard metasurfaces using an optimization algorithm” in International Journal of RF and Microwave Computer Aided Engineering, vol. 31, pp. 1-12, July 2021. (Clarivate Analytics, IF: 1.694)
5. Mr. Melvin C. Jose, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Mr. Pratap Kumar, RS/ECE published a paper titled “A compact omnidirectional to directional frequency reconfigurable antenna for wireless sensor network applications” in International Journal of Microwave and Wireless Technologies, pp.1-12, July 2021 (Published Online).(Clarivate Analytics, IF: 1.064)
6. Ms. G. Revathi, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. S. Ramprabhu, ASP/ECE published a paper titled “Design of Miniaturized Tri-Band Microstrip Bandpass Filter Using Meandered Stubs for WLAN and Wi-Max Band” in IETE

7. Mr. Melvin C. Jose, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Mr. Pratap Kumar, RS/ECE published a paper titled "Compact Dual-Band Millimeter-Wave Antenna for 5G WLAN" in International Journal of Microwave and Wireless Technologies, pp. 1-8, August 2021 (Published Online). DOI: <https://doi.org/10.1017/S1759078721001288> (Clarivate Analytics, IF: 1.064)
8. Mr. G. Iyappan, RS/SSNRC, Dr. R. Govindaraj, SSNRC, Dr. P. Ramasamy, Dean/Research, Ms. R. Kiruthika, RS/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled "Influence of refresh hydrothermally grown ZnO nanorods for vibration sensing application" in IETE Journal of Research, pp. 1-7, August 2021 (Published Online). DOI: <https://doi.org/10.1080/03772063.2021.1963331> (Clarivate Analytics, IF:2.333)
9. Dr. B. Ashvanth, PDF/ECE, Dr. B. Partibane, ASP/ECE published a paper titled "Multiband characterized high gain MIMO antenna for terahertz applications" in Optical and Quantum Electronics, Springer, vol. 53 (8), 460 pp. 1-13, August 2021 (Published Online). DOI: <https://doi.org/10.1007/s11082-021-03114-4> (Clarivate Analytics, IF: 2.084)
10. Dr. S. Radha, Prof & Head/ECE, Mr. K. A. Karthikeyan, RS/ECE, Dr. E Manikandan, AP/VIT Chennai published a paper titled "Single event transient mitigation techniques for a cross-coupled LC oscillator, including a single-event transient hardened CMOS LC-VCO Circuit" in IET Circuits, Devices & Systems, pp.1-11, August 2021 (Published Online). (Clarivate Analytics, IF: 1.290)
11. Ms. V. Aruna, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Kirubaveni, ASP/ECE published a paper titled "A Novel Ultra-Miniaturized Highly Sensitive Refractive Index-Based Terahertz Biosensor" in IEEE/OSA Journal of Lightwave Technology, September 2021 (Published Online). DOI: 10.1109/JLT.2021.3112529 (Clarivate Analytics, IF: 4.142)
12. Mr. G. Iyappan, RS/SSNRC, Dr. R. Govindaraj, SSNRC, Mr.N. Santhosh, RS/SSNRC, Dr. P. Ramasamy, Dean/Research, Ms. R. Kiruthika, RS/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled "Fabrication of vibration sensors using precursor molar concentration varied ZnO nanostructures grown by refresh hydrothermal method" in Circuit World, September 2021, pp.1-10. (Clarivate Analytics, IF: 1.395)
13. Dr. B. Ashvanth, PDF/ECE, Dr. B. Partibane, ASP/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE published a paper titled "An Ultra-Miniaturized Frequency Selective Surface with Angular and Polarization Stability" in IEEE Antennas and Wireless

Propagation Letters, vol. 99, pp. 1-4, October 2021. DOI: 10.1109/LAWP.2021.3119984 (Clarivate Analytics, IF: 3.726)

14. Ms. G. Revathi, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. S. Ramprabhu, ASP/ECE published a paper titled “Mutual coupling reduction in Tri-band Monopole antenna using Spikes Loaded Asymmetric loop Resonator for WLAN and Wi-MAX Band” in Analog Integrated Circuits and Signal Processing, October 2021 (Published Online) DOI: 10.1007/s10470-021-01943-7 (Clarivate Analytics, IF: 1.337)
15. Dr. B. Sakthi Abirami, Dr. S. Esther Florence, ASP/ECE, Dr. R. Vimal Samsingh, ASP/Mech published a paper titled “On-Body RF Sensor Toward Tremor Detection in Parkinson’s Disease” in IEEE/ASME Transactions on Mechatronics, vol. 26 (5), pp. 2814-2817, October 2021. (Clarivate Analytics, IF: 5.303)
16. Dr. J. Saranya, Faculty/REC, Dr. B. S. Sreeja, ASP/ECE, Dr. M. Arivanandan, Anna University, Dr. K. Bhuvaneswari, PDF/ECE, Ms. S. Sherin, Ms. K. S. Shivani, Ms. G. Saradha Preetha, Ms. K. K. Saroja, UG Students/REC published a paper titled “Nanoarchitectonics of Cerium Oxide/Zinc Oxide/Graphene Oxide Composites for Evaluation of Cytotoxicity and Apoptotic Behavior in HeLa and VERO Cell Lines” in Journal of Inorganic and Organometallic Polymers and Materials, pp. 1-12, November 2021 (Published Online) DOI: <https://doi.org/10.1007/s10904-021-02128-5> (Clarivate Analytics, IF: 3.543)
17. Ms. A. Elakkiya, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. E. Manikandan, Faculty/VIT Chennai published a paper titled “Terahertz single dual multi-band metamaterial absorber” in Pramana- Journal of Physics, vol. 95:163, pp.1-8, October 2021. DOI: doi.org/10.1007/s12043-021-02201-1. (Clarivate Analytics, IF: 2.219)
18. Ms. A. Elakkiya, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. B. S. Sreeja, ASP/ECE, Dr. E. Manikandan, Faculty/VIT Chennai published a paper titled “An Ultrathin Microwave Metamaterial Absorber for C, X, and Ku Band Applications” in Journal of Electronic Materials, pp. 1-8, October 2021 (Published Online). DOI: <https://doi.org/10.1007/s11664-021-09251-6>. (Clarivate Analytics, IF: 1.938)
19. Ms. S. Vidhyashree, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Ms. N. Kavitha, RS/ECE published a paper titled “A Novel Broadband Reflectarray for 5G Satellite Communications” in the International Journal of RF and Microwave Computer-Aided Engineering, November 2021 (Published Online), DOI: 10.1002/mmce.22972 (Clarivate Analytics, IF: 1.694)
20. Dr. P. Devi Sowjanya, RS/ECE, Dr. S. Kirubaveni, ASP/ECE, Ms. G. Sudhilaya (PG-VLSI 2017-2019 Batch), Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled “Thin film based optically transparent

- circular monopole antenna for wideband applications” in the Analog Integrated Circuits and Signal Processing, November 2021 (Published Online), DOI: 10.1007/s10470-021-01962-4 (Clarivate Analytics, IF: 1.337)
21. Ms. M. Dhana Lakshmi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Visibility improvement of underwater turbid image using hybrid restoration network with weighted filter” in the Journal of Multidimensional Systems and Signal Processing, pp. 1-26, November 2021 (Published Online). DOI: <https://doi.org/10.1007/s11045-021-00795-8> (Clarivate Analytics, IF: 2.03)
 22. Ms. M. Akhila, RS/ECE, Dr. K. T. Selvan, Prof/ECE, Dr. A. K. Iyer, Alberta, Canada, Dr. K. V. Srivastava, IIT Kanpur and Dr. A. Alphones, NTU Singapore published a paper titled “A review of metasurface-assisted RCS reduction techniques” in Progress in Electromagnetics Research B, vol. 94, pp. 75-103, November 2021. (Scopus Indexed)
 23. Ms. L. Sathyapriya, RS/ECE, Dr. A. Jawahar, Prof/ECE published a paper titled “Energy Efficient Clustering Algorithm Based on Particle Swarm Optimization Technique for Wireless Sensor Networks” in Wireless Personal Communications, February 2021 (Published Online). DOI: <https://doi.org/10.1007/s11277-021-08239-z> (Clarivate Analytics, IF: 1.17)
 24. Ms. L. Sathyapriya, RS/ECE, Dr. A. Jawahar, Prof/ECE, Dr. C.Vinothkumar, ASP/ECE published a paper titled “An energy-efficient clustering algorithm with self-diagnosis data fault detection and prediction for wireless sensor networks” in Concurrency and Computation: Practice and Experience, Wiley, April 2021 (Published Online). DOI: 10.1002/cpe.6288 (Clarivate Analytics, IF: 1.114)
 25. Dr. K. Muthumeenakshi, ASP/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. R. Hemalatha, ASP/ECE published a paper titled “Improved Collaborative Spectrum Sensing Scheme for Maritime Cognitive Radio” in Indian Journal of Geo-Marine Sciences, vol. 50 (8), pp. 603-612, August 2021. (Clarivate Analytics, IF: 0.496)
 26. Ms. R. Kiruthika, RS/ECE, Dr. S. Radha, Prof & Head/ECE, Dr. S.Kirubaveni, ASP/ECE, Ms. V. Shyamala, RS/ECE, Mr. G. Iyappan, RS/SSN RC, Dr. R. Govindaraj, SSNRC, Dr. P. Ramasamy, Dean/Research published a paper titled “Experimental investigation of performance tailoring of the multifunctional sensor using transition metal (Fe) doped ZnO nanorods synthesized via a facile solution-based method” in Nanotechnology, vol. 33 (3), 035713, pp. 1-14, October 2021 (Published Online). DOI: 10.1088/1361-6528/ac2e25 (Clarivate Analytics, IF: 3.874)
 27. Ms. K. Mrinalini, RS/ECE, Dr. P. Vijayalakshmi, Prof/ECE, Dr. T.Nagarajan, Prof & Head/CSE/SNU published a paper titled “Feature-weighted AdaBoost classifier for punctuation prediction in Tamil and Hindi NLP systems” in Expert systems, pp-

- 19, November 2021 (Published online). DOI: <http://doi.org/10.1111/exsy.12889> (Clarivate Analytics, IF: 2.587)
28. Ms. J. Abanah Shirley, RS/ECE, Dr. S. Esther Florence, ASP/ECE, Dr.B. S. Sreeja, ASP/ECE, Dr. S. Radha, Prof & Head/ECE published a paper titled “Performance Analysis of Wearable Pressure Sensor Based on Structural Properties of Zinc Oxide Nanostructures Grown on Fabric” in IEEE Transactions on Nanotechnology, vol. 20, pp. 837-845, November 2021. (Clarivate Analytics, IF: 2.5)
29. Ms. J. Abanah Shirley, RS/ECE, Dr. S. Esther Florence, ASP/ECE, Ms. V. Saraswathi, Ms. S. Sankarshwari, Ms. S. Sona, UG-ECE 2014-2018 Batch students published a paper titled “Fall detection smart-shoe enabled with wireless IoT device” in Circuit World, vol. 47(4), pp. 325-334, November 2021. (Clarivate Analytics, IF: 0.875)
30. Ms. V. Aruna, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S.Kirubaveni, ASP/ECE, Dr. Jaume Anguera, Prof/Universitat Ramon Llull, Spain, Ms. Jessica Constance Paul, Mr. K. Ram Kumar, UG-ECE 2017-2021 Batch published a paper titled “Refractive Index-Based Terahertz Sensor Using Graphene for Material Characterization” in Sensors, vol. 21, 8151, pp. 1-13, December 2021. DOI: 10.3390/s21238151 (Clarivate Analytics, IF: 3.576)
31. Ms. V. Aruna, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Dr. S.Kirubaveni, ASP/ECE, Ms. V. Pancha Durga V, UG-ECE 2017-2021 Batch published a paper titled “An Ultra-thin Multiband Refractive Index-Based Carcinoma Sensor Using THz Radiation” in IEEE Sensors Journal, December 2021 (Published Online). DOI:10.1109/JSEN.2021.3134663 (Clarivate Analytics, IF: 3.301)
32. Vijayalakshmi, P., Nagarajan, T., Jayapriya, R (ME CS 2017-19), Brathindara, S., Krithika, K., Nikhilesh, N.(UG ECE 2015-19), Naren Raju, N.(UG EEE 2014-18), Johanan Joysingh (RS/IT), S., Aiswarya, V.(ME CS 2016-18) , Mrinalini, K. (FT/ECE), "Development of a low-resource wearable continuous gesture-to-speech conversion system", Disability and Rehabilitation: Assistive Technology. (in press), Dec. 2021.
33. G. Annalakshmi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “A Novel feature descriptor based coral image classification using extreme learning machine with ameliorated chimp optimization algorithm”, Elsevier Journal of Ecological Informatics, pp. 1-14, December 2021 (Published Online), DOI:10.1016/j.ecoinf.2021.101527 (Clarivate Analytics, IF: 3.142)
34. Divya I (RS/ECE), Kailasam, Muthumeenakshi and Sankararajan, Radha. "An optimization of a reconfigurable CPW antenna for RF energy harvesting cognitive radio application" Frequenz, vol. , no. ,2021, pp. 000010151520210131. <https://doi.org/10.1515/freq-2021-0131>

35. K. Sumathi (FT/ECE), K. K. Nagarajan, and R. Srinivasan, "Sensitivity Analysis of Gallium Nitride Quantum Dot LED", Journal of Nanoelectronics and Optoelectronics (CA), Vol.16, No. 8, pp.1204–1214 (2021)
36. Ms. S. Mary Cecelia, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled "Denoising, Edge aware restoration and enhancement of single shallow coastal water image" in Fluctuation and Noise Letters, vol. 21 (1), pp. 1-16, February 2022. DOI: 10.1142/S0219477522500092 (Clarivate Analytics, IF: 1.31)
37. Ms. A. Abirami, RS/ECE, Dr. S. Esther Florence, ASP/ECE, Dr. R.Vimal Samsingh, ASP/Mech published a paper titled "Realization of a Novel Weaving Framework in Looms for Manufacturing of E-Textiles" in IEEE Transactions on Components, Packaging and Manufacturing Technology, pp. 1-9, January 2022 (Published Online), DOI: 10.1109/TCPMT.2022.3144366 (Clarivate Analytics, IF: 1.738)
38. Ms. K. Mrinalini, RS/ECE, Dr. P. Vijayalakshmi, Prof & Head/ECE, Dr. T. Nagarajan, Prof & Head/SNU published a paper titled "SBSim: A sentence-BERT similarity-based evaluation metric for Indian language neural machine translation systems" in IEEE/ACM Transactions on Audio, Speech and Language Processing (TASLP), pp. 1-11, March 2022 (Published Online). DOI: 10.1109/TASLP.2022.3161160 (Clarivate Analytics, IF: 3.919)
39. Dr. K. A. Karthigeyan, Dr. S. Radha, VP/SSNCE, Dr. E. Manikandan, AP/VIT published a paper titled "Polarisation-insensitive and broadband band-stop metamaterial filter for THz waves" in Pramana - Journal of Physics, vol. 96:65, pp. 1-5, March 2022. (Clarivate Analytics, IF: 2.219)
40. Ms. K. Mrinalini, RS/ECE, Dr. P. Vijayalakshmi, Prof & Head/ECE, Dr. T. Nagarajan, Prof & Head/CSE/SNU published a paper titled "SBSim: A Sentence-BERT Similarity-Based Evaluation Metric for Indian Language Neural Machine Translation Systems" in IEEE/ACM Transactions on Audio, Speech and Signal processing, vol. 30, pp.1396-1406, March 2022. (Clarivate Analytics, IF: 3.919)
41. Ms. B. N. Priyanka, RS/ECE, Dr. R. Jayaparvathy, Prof/ECE, Ms. D. Divyabarathi, PG-CS 2016-2018 Batch published a paper titled "Efficient and Dynamic Cluster Head Selection for Improving Network Lifetime in WSN using Whale Optimization Algorithm" in Wireless Personal Communications, vol. 123, pp. 1467-1481, April 2022. (Clarivate Analytics, IF: 1.601)
42. Ms. M. Akila, RS/ECE, Ms. N. Divya, Mr. S. Abishek, UG-ECE 2017-2021 Batch students, Dr. V. Lingasamy, Senior Technical Lead/Sterlite Technologies Limited, Mr. K. Hariharan, UG-ECE 2017-2021 Batch student and Dr. K. T. Selvan, Prof/ECE published a paper titled "A Broadband Dual-Polarized Magneto-Electric Dipole Antenna Element for Low-Frequency Astronomical Arrays" in Applied

Computational Electromagnetics Society Journal, vol. 37 (1), pp. 78-84, January 2022. (Clarivate Analytics)

43. Ms. B. Raagavi, PG-AE 2018-2020 Batch, Ms. S. Swathi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE published a paper titled “Characteristics Analysis of Metamaterial Enhanced Magnetic Induction Based Underground Communication” in Wireless Personal Communications, vol. 123, pp. 1669-1685, March 2022. (Clarivate Analytics, IF: 1.061)
44. Dr. D. Kanchana, Dr. S. Radha, VP/SSNCE, Dr. B. S. Sreeja, ASP/ECE published a paper titled “A miniaturised FSS with band-stop response for shielding application in X-band frequency” in Pramana, vol. 96 (1), pp. 1-5, March 2022. (Clarivate Analytics, IF: 1.688)
45. Dr. S. Sayi Soundariya, Dr. S. Ramprabhu, ASP/ECE, Mr. G. Mugeshnandha, Mr. G. Karthick, Mr. S. Nandhakishore, UG-ECE 2015-2019 Batch students published a paper titled “Miniaturized Multi-band Frequency Selective Surface with Angular and Polarization Independent Characteristic” in Frequenz, pp. 1-8, May 2022 (Published online). DOI: <https://doi.org/10.1515/freq-2021-0097> (Clarivate Analytics, IF: 0.726)
46. M. Nanmalar, P. Vijayalakshmi, T. Nagarajan, “Literary and Colloquial Tamil Dialect Identification”, Circuits, Systems and Signal Processing, pp.1-24, March 2022 (Published Online), DOI: <https://doi.org/10.1109/TENCON.2019.8929499> (Clarivate Analytics, IF: 2.225)

International Conferences:

1. Ms. S. Swathi, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE presented a paper titled “Influence of Various Soil Types and its Properties on Filamentary Planar Coil based Magnetic Induction Communication System” in 27 th National Conference on Communications (NCC 2021), organized by IIT Kanpur, Uttar Pradesh, held during 27-30 July, 2021.
2. Ms. S. Mary Cecilia, RS/ECE, Dr. S. Sakthivel Murugan, ASP/ECE presented a paper titled “Visibility Restoration of Diverse Turbid Underwater Images – Two Step Approach” in 27 th National Conference on Communications (NCC 2021), organized by IIT Kanpur, Uttar Pradesh, held during 27-30 July, 2021.
3. Ms. M. Akila, RS/ECE and Dr. K. T. Selvan, Prof/ECE presented the paper titled “Toward improved prediction of RCS reduction bandwidth of checkerboard metasurfaces” at the 2021 IEEE International Symposium on Antennas and Propagation held in Singapore during December 6-10, 2021.

4. Dr. K. Bhuvaneswari (PDF/ECE), Dr. B. S. Sreeja, ASP/ECE, Dr. S. Radha, VP/SSNCE presented a paper titled “Study on electrochemical detection of metal ions and photocatalytic degradation of MB dye using Nano zero-valent iron” in 3rd Indo-Korea conference on Development of advanced materials for future technologies (DAMFT-2022) held during April 22-23, 2022.
5. Ms. A. Gowthami, Dr. B. S. Sreeja, ASP/ECE presented a paper titled “Design and Fabrication of Low Cost and Biocompatible Microneedle arrays using 3D printing” in 3rd Indo-Korea conference on Development of advanced materials for future technologies (DAMFT-2022) held during April 22-23, 2022.
6. Ms. N. Kavitha, RS/ECE, Ms. S. Vidhyashree, RS/ECE, Dr. M. Gulam Nabi Alsath, ASP/ECE, Ms. B. Ishwarya, UG-ECE 2016-2020 Batch presented a paper titled “Design and Development of Frequency Reconfigurable Reflectarray Antenna” in the National Conference on Information and Communication Technologies organized by the Department of ECE, SSNCE during 23.02.2022.
7. ECE/2021-22/NCP/6 Ms. S. Vidhyashree, RS/ECE, Dr. M. Gulam Nabi Alsath, Dr. S. Kirubaveni, ASPs/ECE presented a paper titled “Novel Ku Band Reflectarray Antenna for Beam scanning Applications” in the National Conference on Information and Communication Technologies organized by the Department of ECE, SSNCE during 23.02.2022.