Name : **Dr. C Arvind**

Designation : **Professor/ECE**

No. of journal Publications : **23**

Area of Specialization : **Communication System, Signal Processing and VLSI**

Journal publications:

1. R. Selvakumar and **Arvind, C** (2020) „Wide-Range Energy-Efficient Buffer based Voltage Level-up Converters for Multi Supply Voltage Systems", *Sadhana Proceedings of Engineering Sciences – (Springer, ESCI)* Accepted for publication

2. Devendra Kumar, **Arvind C** and K Srihari (2020) „Design and Analysis on Molecular level biomedical event trigger extraction using recurrent neural network based particle swarm optimization for COVID-19 Research", *International Journal of Computer Applications in Technology – (Inderscience, ESCI)* Accepted for publication

3. R. Selvakumar and **Arvind, C** (2020) „Energy-Efficient CMOS Voltage Level Shifters with Single-VDD for Multi-core Applications", *Analog Integrated Circuits and Signal Processing – (Springer, ESCI)* Accepted for publication

4. R. Selvakumar and **Arvind, C** (2020) „A 16ns, 28fJ Wide-Range Subthreshold Level Converter using Low-voltage Current Mirror" *Circuits, Systems and Signal Processing (Springer, ESCI)* – DOI: https://doi.org/10.1007/s00034-020-01524-5, Published online: 24 Aug. 2020

5. K. Kamaraj, **Arvind, C** and Srihari K (2020) „A weight optimized artificial neural network for automated software test oracle" Soft Computing (Springer, *ESCI*) – DOI: https://doi.org/10.1007/s00500-020-05197-9, Published Date ; 18 July 2020

6. Anand Prem and **Arvind, C** (2019) „A Millimeter Wave Generation scheme Based On Frequency Octupling using LiNbO3 Mach- Zehnder Modulator" Published online 09.11.2020,*National Academy Science letters (Springer, SCI)* – DOI: 10.1007/s40009-018-0766-3, Vol. 42, No. 5, pp. 401 – 406, Sept. – Oct. 2019.

7. Anand Prem and **Arvind, C** (2018) „A Novel scheme for Optical Millimeter Wave Generation using LiNbO3 Mach- Zehnder Modulator without amplifier", *Proceedings of the National Academy of Sciences, Physical Sciences* (Springer, SCI), DOI 10.1007/s40010-018-0532-4, Published online – 25th September 2018.

8. Poomari S and **Arvind C**, (2017) „A novel scheme for optical millimeter wave generation using MZM", *ARPN Journal of Engineering and Applied Sciences*, Volume 12, Issue 21, pp. 6097 – 6102.

9. M. Arun Kumar and **Arvind C**, (2017) „A Survey of Low Power FFT Processor for Signal Processing Applications", *Journal of Advanced Research in Dynamical and Control Systems*, Issue 15, pp. 633 – 641.

10. A. Sujatha Priyadharshini and **Arvind C**, (2017) „Survey on Energy Efficient Hierarchical Routing Protocols", *Journal of Advanced Research in Dynamical and Control Systems*, Issue 15, pp. 626 – 632.

11. M. Naresh, **Arvind C** and M. Ganesh, (2017) „MRI Brain Image Segmentation Using Enhanced Adaptive Fuzzy K-Means Algorithm" *Intelligent Automation & Soft Computing* (Tayor and Francis, WoS), Volume 23, Issue 2, pp. 325 – 330.

12. **Arvind, C.,** Elanchezhian, Kabilarasan and Chinchu Joseph, (2015) „A Low Complexity Splitter Based Parallel Multiplier For DSP Applications", *Proceedings of National Academy of Science: Physical Sciences A.* (Springer, SCI), Volume 85, Issue 2, pp. 277-281.

13. Kannapiran S and **Arvind C** (2020) „An Efficient and smart fan using IR Communication" *International Journal of Advanced research in Basic Engineering Science and Technology*, Vol. 6, Issue 5, pp 1 – 10.

14. Saranya L and **Arvind C** (2018) „Survey on the design methods of low power SRAM cell" *International Journal of Pure and Applied Mathematics*, Bluetooth enabled braking system for accident prevention, Vol. 118, issue 20, pp. 397 – 402.

15. **Arvind C**, Mawnash E, Mohamed Yaser A and Krithika S, (2018) „Wireless notice board using GSM", *International Journal of Pure and Applied Mathematics*, Bluetooth enabled braking system for accident prevention, Volume 118, issue 20, pp. 633 – 636.

16. **Arvind C**, Shanmugapriya S, Thenmozhi P and Vishnupriya R, (2018) „Simulation Analysis of binary multipliers used in the MAC unit of digital signal processors", *International Journal of Pure and Applied Mathematics*, Bluetooth enabled braking system for accident prevention, Volume 118, issue 20, pp. 95 – 99.

17. **Arvind C**, Ashok Raja, Gowtham M S, Vincy R, (2018) „Bluetooth enabled braking system for accident prevention", *International Journal of Pure and Applied Mathematics*, Volume 118, issue 20, pp. 215 – 223.

18. Anand Prem P K and **Arvind C**, (2017) „A Phase Modulation Scheme for Millimeter Wave Generation Based on Frequency Octupling using LiNbO3 Mach- Zehnder Modulator", *International Journal of Engineering and Technology*, Volume 9, Issue 4, pp. 3197 – 3202.

19. Devendra Kumar and **Arvind C**, (2017) „Facial Expression Recognition System "Sentiment Analysis"" *Journal of Advanced Research in Dynamical and Control Systems*, Issue 15, pp. 250 – 255.

20. **Arvind, C.** and Kamaraj, K., (2017) „Strategies of Automated Test Oracle – A Survey", *Advances in Natural and Applied Sciences*, Volume 11, Issue 1, pp. 77 – 91.

21. **Arvind, C.** and Anand Prem P K, (2017) „Optical millimeter wave generation using external modulation – A review", *Advances in Natural and Applied Sciences*, Volume 11, Issue 1, pp. 8 – 12.

22. **Arvind, C.** and Kannapiran, S., (2016) „A novel home automation system using bluetooth and Arduino", *International Journal of Advances in Computer and Electronics Engineering*, Volume 1, Issue 5, pp. 41 – 44.

23. **Arvind, C.,** and Poomari, S., (2016) „A survey on optical millimeter wave generation using frequency multiplication based on external modulation", *International Journal for Science and Advance Research in Technology*, Volume 2, Issue 11, pp. 340 – 342.

Conference Publications

1. Anand Prem and **Arvind, C** (2018) „An optical millimeter wave generation using carrier suppression modulation scheme based on frequency 12-tupling LiNBO3 MZM without an optical filter" International conference on inventive Material Science and applications, PPG Institute of Technology, Coimbatore. 27th and 28th September, 2018.

2. Divakaran J and **Arvind, C** (2018) Analysis of Microstrip patch antenna with different substrate configurations, International conference on inventive Material Science and applications, PPG Institute of Technology, Coimbatore. 27th and 28th September, 2018.

3. **Arvind, C** and Senthilkumar B, (2018) „Performance Analysis of Rectangular Microstrip Patch Antenna with different configurations and contacting feeding mechanisms" International Conference on Materials, Applied Physics and Engineering, Indore, Madhya Pradesh.

4. **Arvind, C.,** and Anand Prem P K, (2017) „An optical millimeter wave generation based on frequency quadrupler using LiNbO3 MZM and a phase modulator" Proceedings of CSI sponsored National Conference on Recent Advances in Computing Sciences

5. **Arvind, C.,** Divakaran, J. and Neelaveni, M. (2017) „Performance Analysis of Circular Patch Antenna with different substrate configurations" Proceedings of CSI sponsored National Conference on Recent Advances in Computing Sciences

6. **Arvind, C.,** (2017) 'A Multiplexer assisted Parallel Multiplier for Digital Signal Processing Applications' IEEE International Conference of Science, Technology,Engineering and Management (ICSTEM" 17) pp. 237-242.

7. **Arvind, C.** and R. Rekha (2017) 'A High Speed and Low Complexity Modified Splitter based Parallel Multiplier for the MAC unit of DSPs' IEEE International Conference of Science, Technology, Engineering and Management (ICSTEM" 17) pp. 127-130.