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## List of Publications

### Books

1. P. Suresh, **U. Saravanakumar**, Mohammed Al Salameh 2020, *Advances in Smart System Technologies*, In Book Series: Advances in Intelligent Systems and Computing, Springer, ISBN: 978-981-15-5028-7.
2. P. Suresh, **U. Saravanakumar**, Mohammed Al Salameh 2019, *Advances in Materials and Smart System Technologies*, In Book Series: IOP Conference Series: Material Science and Engineering.

### Book Chapters

1. **U. Saravanakumar** & P. Suresh 2017, Embedded Based Device Activating with Respect to Facial Reaction for Disabilities, In Dr. Ashok G. Matani (Ed.), *Engineering & Technology: Latest Progress*, Meta Research Press, New Delhi, September 2017. **ISBN: 978-81-932850-2-2**

### Patents

#### Published in Indian Patent Journal

1. DDPN-Technology: Disease Diagnoses Prediction and Notification Using Iot-based Technology, 08, May 2020, Application No.202041012278 A
2. IoT-Device Configured: Automotive Internet of Things (IoT) Device Configured Within A Car Comprises, 06, March 2020, Application No.202041008773 A.
3. Block Chain Encrypted Data Sharing (BEDS) – To Transmit the Electronic Medical Records in Secure Cloud Environment, 17, January 2020, Application Number: 202041000790 A.

### International Journals

1. Suresh P, **Saravanakumar U**, Celestine Iwendi, Senthilkumar Mohan, and Gautam Srivastava, FPGA low power vision system using dynamic switching, *Computers & Electrical Engineering*, Elsevier (Accepted)
2. P.Ramu, S.P. Vimal, P. Suresh, **U. Saravanakumar**, V. Sethuraman, S. Anandhavelu, Electrochemically Deposited Porous Graphene -Polypyrrole-Polyphenol Oxidase for Dopamine Biosensor, *Electroanalysis*, Wiley. (Accepted)
3. R.Sagayaraj, G.Ganesan@Subramanian, **Saravanakumar.U** 2020, Implementation of Air Conditioning System by Hybrid Energy Operated Power Utilization for Public Transports in Eco friendly Environment, *Journal of Xidian University*, vol. 14, no.4, 3046-3053.
4. Rangarajan.J, **Saravanakumar.U**, Sabitha.J 2020, Virtual Lab: Keep Away Physically but not Technically, *International Research Journal of Engineering and Technology*, vol. 7, no. 4, pp. 1965 -1967.
5. Suresh.P., Rajkumar.R., Venkata Prasad, Udhayakiran Yadav, **Saravanakumar.U**. 2020, Dynamic Partial Reconfiguration Performance Analysis in Field Programmable Gate Array For Streaming

- Applications, *International Journal of Scientific and Technology Research*, Vol. 9., No. 02, pp. 3908-3101. (**Scopus**)
6. V. Karthikeyan, U. Saravanakumar & P. Suresh 2020, Frequency Based Passive Chipless RFID Tag Using Microstrip Openstub Resonators, *Lecture Notes in Electrical Engineering*, vol 642. Springer, Singapore. (**Scopus**)
  7. R.Sagayaraj, A.Sheela, U.Saravanakumar 2019, Automated Anesthesia Injector for Patient Monitoring System using Unified Technology Learning Platform, *International Journal of Innovative Technology and Exploring Engineering*, vol. 8, Issue 12, pp. 3692-3696 (**Scopus**)
  8. P.Suresh, U.Saravanakumar, V. Karthikeyan, G. Vamsi Krishna, K. Sreekanth, G. Kumar Reddy 2019, Design and Implementation of Real Time Data Acquisition System in All Programmable System on Chip, *International Journal of Innovative Technology and Exploring Engineering*, vol.8, Issue 10. (**Scopus**)
  9. V.Karthikeyan, P.Suresh, U.Saravanakumar, A.K.M.Anil Venkata Rama Sekhar, S. Srikanth, M. Akhil Krishna 2019, WideBand Millimeter Wave Fabric Antenna for 60GHz Applications, *International Journal of Innovative Technology and Exploring Engineering*, vol.8, Issue 9. (**Scopus**)
  10. U. Saravanakumar, P. Suresh & V. Karthikeyan 2019, Low-Power High-Speed Hybrid Multiplier Architectures for Image Processing Applications, *Lecture Notes in Computational Vision and Biomechanics*, Springer, vol. 30, pp. 539-550. (**Scopus**)
  11. Rahul Vasant Nale, Shubham Srivastava, Aditya Kumar Sinha & U. Saravanakumar 2018, A CAN Protocol Based Driver Assistance System for Safety manner, *Lecture Notes on Data Engineering and Communications Technologies*, Springer, vol. 26, pp. 292-302.
  12. U. Saravanakumar, P. Suresh & S.P.Vimal 2018, Low-power, low-latency transceiver design using d-TGMS flip-flop for on-chip Interconnects, *International Journal of Engineering and Technology*, Vol. 7, No. 1, pp. 106-109. (**Scopus**)
  13. P.Suresh, U. Saravanakumar & M.Revathi 2017, SOA Based All-Optical N-Bit-Binary Data Multiplier Design, *J Nanomed Nanosci: JNAN*-116.
  14. U. Saravanakumar, Anil Krishna Galla, Arun R & Abhishek Prabhu P 2013, Implementation of Wormhole Router with Low Power Buffer Management, *International Journal on Computer Science and Technology*, vol. 4, no. 4, pp. 237-240.
  15. S. P. Vimal, M. Kasiselvanathan & U. Saravanakumar 2013, A new SLM and PTS Schemes for PAPR reduction in OFDM systems, *International Journal of Advanced Research in Computer and Communication Engineering*, vol. 2, no. 11, pp. 4236-4240.
  16. U. Saravanakumar, R. Rangarajan, R. HariPriya, R. Nithya & K. Rajasekar 2013, Cluster Based Hierarchical Routing Algorithm for Network on Chip, *Circuits and Systems*, vol. 4, no. 5, pp. 401-406.
  17. U. Saravanakumar & R. Rangarajan 2013, Design and Performance Evaluation of On Chip Network Routers, *Journal of Theoretical and Applied Information Technology*, vol. 52, no. 2, 211-218. (**Scopus**)
  18. U. Saravanakumar, K. Rajasekar & R. Rangarajan 2013, Implementation of Scheduling Algorithms for On Chip Communications, *International Journal of Computer Applications*, vol. 62, no. 14, pp. 35-38.
  19. U. Saravanakumar & R. Rangarajan 2013, Simulation and Analysis of Multicast Routing Algorithm for 2-D Mesh Network on Chip, *Asian Journal of Scientific Research*, vol. 6, no. 4, 754-762. (**Scopus**)
  20. U. Saravanakumar & R. Rangarajan 2012, Performance Explorations of Multi-Core Network on Chip Router, *International Journal of Simulation: Systems, Science and Technology*, vol. 13, no. 1, pp. 36 – 42. (**Scopus**)
  21. U. Saravanakumar, R. Rangarajan & K. Rajasekar 2012, Hardware Implementation of Pipeline Based Router Design for Network on Chip, *ICTACT Journal on Communication Technology*, vol. 3, no. 4, pp. 646 – 650. (**IET Inspec**)

22. U. Saravanakumar & R. Rangarajan 2012, Energy and Throughput Analysis of Routing Algorithms for 2D Mesh NoC, *Procedia Engineering*, Elsevier, vol. 30, pp. 144–151. (**Scopus & Web of Science**)

#### National Journals

1. Akshaya C V & U. Saravanakumar, 2017, Design of low area multipliers for image processing applications, *National Journal of Technology*, vol. 13, no. 3.

#### International Conferences Presentations / Proceedings

1. V. Karthikeyan, P. Suresh & U. Saravanakumar 2019, A Penta-Band Frequency Reconfigurable Patch Slot Antenna For C-Band Applications, Third IEEE International Conference on Trends in Electronics and Informatics (ICOEI 2019), SCAD College of Engineering and Technology, Tirunelveli, 23<sup>rd</sup> – 25<sup>th</sup> April 2019. (**Scopus**)
2. Saad Bin Abul Kashem, Fawad Shahid, Uvais Qidwai, Suresh, P., Jubaer Ah-med, U. Saravanakumar, 2019 “Autonomous Vehicle Sunshade Using Aluminum Panels” in International Conference on Frontiers in Smart System Technologies” Organized by Veltech University, held on 1<sup>st</sup> – 3<sup>rd</sup> April 2019.
3. Jiang Hong Chang, Mujahid Tabassum, Uvais Qidwai, Saad Bin Abul Kashem, Suresh, P., U. Saravanakumar, 2019 “Design and Evaluate Low Cost Wireless Sensor Network Infrastructure to Monitor the Jetty Docking Area in Rural Areas” in International Conference on Frontiers in Smart System Technologies” Organized by Veltech University, held on 1<sup>st</sup> – 3<sup>rd</sup> April 2019.
4. Chua Boon Liang, Mujahid Tabassum, Saad Bin Abul Kashem, Zulfiqar Zama, Suresh, P., U. Saravanakumar, 2019 “Smart Home Security System Based on Zigbee,” in International Conference on Frontiers in Smart System Technologies” Organized by Veltech University, held on 1<sup>st</sup> – 3<sup>rd</sup> April 2019.
5. P. Suresh, U. Saravanakumar, V. Karthikeyan & M. Revathi 2018, Accelerating of Nano particles in the focal region through tightly focused cylindrical vector beam, in Latin America Optics and Photonics Conference, OSA Technical Digest (Optical Society of America, 2018), paper Th3D.5, 12–15 November 2018, Lima, Peru. (**Scopus**)
6. P. Suresh, U. Saravanakumar and M. Revathi 2018, Enhancement of Sub Wavelength Focal Depth using Specially Designed Spiral Phase Plate, 3rd International Nanotechnology Conference & Expo May 7-9, 2018, Rome, Italy.
7. V. Karthikeyan, U. Saravanakumar & P. Suresh 2018, Frequency Based Passive Chipless RFID Tag Using Microstrip Openstub Resonators, 4th International Conference on Nanoelectronics, Circuits & Communication Systems (NCCS-2018), Organized by IETE & ISVE Ranchi Centre, 3-4th Nov-2018 at ARTTC, BSNL, Ranchi.
8. Rahul Vasant Nale, Shubham Srivastava, Aditya Kumar Sinha & U. Saravanakumar 2018, A CAN Protocol Based Driver Assistance System for Safety manner, International Conference on Intelligent Data Communication Technologies and Internet of Things, 07-08 August 2018.
9. U. Saravanakumar, P. Suresh & V. Karthikeyan 2018, Low-Power High-Speed Hybrid Multiplier Architectures for Image Processing Applications, International Conference on 2018 ISMAC - CVB in Computational Vision and Bio-Engineering, 16 – 17, May 2018.
10. U. Saravanakumar & R. Rangarajan 2011, Energy and Throughput Analysis of Routing Algorithms for 2D Mesh NoC, Proceedings of the International Conference on Communication Technology and System Design, Amrita University, Coimbatore.