

Year	Dr.M.Jayakumar - List of Publications (Last 5 years)
2019	Anusha K. S., Dr. Ramanathan R., and Dr. Jayakumar M., “Device Free Localisation Techniques in Indoor Environments”, Defence Science Journal (DSJ), vol. 69, no. 4, pp. 378-388, 2019.
2018	P. Sudheesh and Dr. Jayakumar M., “Non linear Tracking Using Unscented Kalman Filter”, Advances in Intelligent Systems and Computing, vol. 678, pp. 38-46, 2018.
2018	P. Sudheesh and Dr. Jayakumar M., “Tracking of Nonlinear Variations of the Parameters of High Mobility Systems”, International Journal of Pure and Applied Mathematics, Open Access, vol. 118, no. 7, pp. 221-226, 2018.
2018	M. N. Devi, Jacob, I. S., Ranjani, R. S., and Dr. Jayakumar M., “Detection of Malicious Circuitry Using Transition Probability Based Node Reduction Technique”, Telkomnika (Telecommunication Computing Electronics and Control) Open Access, vol. 16, no. 2, pp. 573-579, 2018.
2018	N Mohankumar, Dr. Jayakumar M., and M. Devi, N., “CRC-Based Hardware Trojan Detection for Improved Hardware Security”, Lecture Notes in Electrical Engineering, vol. 471, pp. 381-389, 2018.
2017	Dr. Ramanathan R. and Dr. Jayakumar M., “A Support Vector Regression Approach to Detection in Large-MIMO Systems”, Telecommunication Systems, vol. 64, no. 4, pp. 709 - 717, 2017.
2016	K. B Thilagam, Kartha, M. M., and Dr. Jayakumar M., “Performance Analysis of Cylindrical Dielectric Resonator Antenna with various slot configurations on Substrate Integrated Waveguide”, I J C T A, vol. 9, no. 15, pp. 7581-7588, 2016.
2016	M. M. Kartha, B. Thilagam, K., and Dr. Jayakumar M., “Performance analysis of dielectric resonator antenna on substrate integrated waveguide cavity with dumbbell slot for wideband applications”, International Journal of Control Theory and Applications, vol. 9, pp. 7471-7478, 2016.
2016	Sudheesh, P., and Dr. Jayakumar M., “Indoor robot localisation using Kalman filter”, Indian Journal of Science and Technology, vol. 9, 2016.
2016	S. Vikranth, Sudheesh, P., and Dr. Jayakumar M., “Nonlinear Tracking of Target Submarine using Extended Kalman filter (EKF)”, Communications in Computer and Information Science, vol. 625, pp. 258-268, 2016.

2016	Dr. Ramanathan R. and Dr. Jayakumar M., “A Low Complex Sparse Formulation of Semidefinite Relaxation Detector for Large-MIMO Systems Employing BPSK Constellations”, <i>Wireless Personal Communications</i> , vol. 90, no. 3, pp. 1317–1329, 2016.
2016	A. Ravindran, Karthigha Balamurugan, and Dr. Jayakumar M., “Design of Cascaded Common Source Low Noise Amplifier for S-Band using Transconductance Feedback”, <i>Indian Journal of Science and Technology</i> , vol. 9, 2016.
2015	L. Kumar Goel, Sasi K Kottayil, Dr. Kirthiga S., and Dr. Jayakumar M., “SMART GRID TECHNOLOGIES Performance Studies and Review of Millimeter Wave MIMO Beamforming at 60 GHz”, <i>Procedia Technology</i> , vol. 21, pp. 658 - 666, 2015.
2015	S. Kirthiga and Dr. Jayakumar M., “Performance Studies and Review of Millimeter Wave MIMO Beamforming at 60 GHz”, <i>Procedia Technology</i> , vol. 21, pp. 658–666, 2015.
2015	Dr. Ramanathan R. and Dr. Jayakumar M., “A novel cuckoo search approach to detection in spatially correlated MIMO channels”, <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , vol. 6, no. 2, pp. 101-113, 2015.
2015	Dr. Ramanathan R. and Dr. Jayakumar M., “A Performance Study of Semidefinite Relaxation Detector in Spatially Correlated and Rank Deficient Large MIMO Systems”, <i>Wireless Personal Communications</i> , vol. 83, no. 4, pp. 2883-2897, 2015.
2015	H. Damodaran, Sudheesh, P., and Dr. Jayakumar M., “Extended kalman filter for channel estimation combined with decision feedback equalizer for very high mobility system”, <i>International Journal of Applied Engineering Research</i> , vol. 10, pp. 33914-33918, 2015.
2015	Karthigha Balamurugan, M. Nirmala Devi, and Dr. Jayakumar M., “Performance analysis of 60 GHZ low noise amplifiers using multi-gate mosfets”, <i>Journal of Theoretical and Applied Information Technology</i> , vol. 77, pp. 373-381, 2015.