SRM Institute of Science and Technology
College of Engineering and Technology
Department of Electronics and Communication Engineering
Academic Year 2017-2018
Scientific Citation Indexed Publications

Faculty Name	Count	Article title	DOI
Dr. T. Rama Rao	9	Ramya and T. Rama Rao; "Design of Penta-band Antenna with Integrated Low Noise Amplifier Circuit for Vehicular Communications"; *IET Circuits, Devices & Systems*, Volume 12, Issue 3, p. 221 – 225, May 2018	https://doi.org/10.1049/iet-cds.2017.0190
		Purva Shrivastava and T. Rama Rao; "Performance Analysis of SAR Distributions with Substrate Integrated Waveguide based Antipodal Linear Tapered Slot Antenna at 60 GHz"; *IEEE Antennas & Propagation Magazine*, Vol. 59, Issue.6, P.140-146, 2017.	https://doi.org/10.1109/MAP.2017.2753702
		Ramya and T. Rama Rao; "Penta-band linear tapered feed planar spiral antenna for vehicular communication", *International Journal of Microwave and Wireless Technologies*, Vol.9, Issue.7, pp. 1523-1532, September 2017.	https://doi.org/10.1017/S175907871700006X
		Nishesh Tiwari, T Rama Rao; "Substrate Integrated Waveguide Based High Gain Planar Antipodal Linear Tapered Slot Antenna with Dielectric Loading for 60 GHz Communications"; *Wireless Personal Communications* – Springer Journal, Volume 97, Issue 1, pp 1385–1400, November 2017.	https://doi.org/10.1007/s11277-017-4578-4
		Nishesh Tiwari, T Rama Rao; "SIW based Antipodal Linear Tapered Slot Antenna for Inter-Satellite Communication Links at 60 GHz"; S*pringer's Wireless Personal Communications* –Journal, Vol.96, Iss. 3, P.3403–3419, 2017	https://doi.org/10.1007/s11277-017-4063-0
		Varshini Karthik and T. Rama Rao; "Investigations on SAR and Thermal Effects of a Body Wearable Microstrip Antenna"; *Springer's Wireless Personal Communications*; Vol.96, Iss. 3, P.3385–3401, 2017	https://doi.org/10.1007/s11277-017-4059-9
		Ramya and T. Rama Rao; "Design and Performance Analysis of a Penta-band Spiral Antenna for Vehicular Communications", *Springer's Wireless Personal Communications;* Vol. 96, Iss. 3, P.3421–3434, 2017	https://doi.org/10.1007/s11277-017-4064-z
		Ramya and T. Rama Rao; "Penta-band Linear Tapered Feed Spiral Antenna Design and Radio Link Characterization for Vehicular Communications"; *Wireless Personal Communications,* Vol. 96, No. 2, P. 3063–3080, 2017	https://doi.org/10.1007/s11277-017-4341-x
		Nishesh Tiwari and T. Rama Rao; "Antipodal Linear Tapered Slot Antenna with Dielectric Loading Using Substrate Integrated Waveguide Technology for 60 GHz Communications"; *ACES Journal*, Vol. 32, No.4, April 2017	https://doi.org/1054-4887 © ACES
Dr. B. Ramachandran	1	C.Amali, J.Dhanashree and B.Ramachandran, "An Analytical Solution based on Mobility and Multicriteria Optimization for Access Selection in Heterogeneous Environment", *Sadhana-Academic Proceedings in Engineering Sciences, Springer-Indian Academy of Sciences publications*, Sep 2017. (IF : 0.465)	https://doi.org/0.1007/s12046-017-0727-4

Dr. R. Kumar	1	Babu, SB Sumith, and R. Kumar, "1D-Bernoulli Chaos Sequences Based Collaborative-CDMA: A Novel Secure High Capacity CDMA Scheme." *Wireless Personal Communications,* 96, no. 2, pp. 2077-2086, Sep 2017	https://doi.org/10.1007/s11277-017-4287-z
Dr. S. Malarvizhi	1	Neduncheran, Arumbu Vanmathi, Malarvizhi Subramani, and Vijayakumar Ponnusamy. "Design of a TAS-STBC-ESM (F) Transceiver and Performance Analysis for 20 bpcu." *IEEE Access* 6 (2018): 17982-17995.	https://doi.org/10.1109/ACCESS.2018.2821242
Dr. Shanthi Prince	7	Rohan Katti, Shanthi Prince, "Photonic Delay Lines Based on Silicon Coupled Resonator Optical Waveguide Structures", *Silicon,* April 2018	https://doi.org/10.1007/s12633-018-9819-y
		Rohan Katti, Shanthi Prince, "Ultrafast optical binary to gray code and gray to binary code conversion based on phase modulation in Mach–Zehnder interferometer" *Opt. Eng*. 56(2), 025101 (Feb 10, 2017).	https://doi.org/10.1117/1.OE.56.2.025101
		Vivek Kachhatiya and Shanthi Prince, "Downstream Performance Analysis and Optimization of the Wavelength Routing Passive Optical Network (WR-PON) for Next Generation Passive Optical Network Stage 2 (NG-PON2)," *Optics & Laser Technology,* 104:90-102, Aug 2018	https://doi.org/10.1016/j.optlastec.2018.02.007
		Rahul Bosu, and Shanthi Prince, "Reflection assisted beam propagation model for obstructed line-of- sight FSO links", *Optical and Quantum Electronics,* 50(116), pp. 1-21 (2018).	https://doi.org/10.1007/s11082-018-1381-8
		Shanthi Prince, P.Sri Saini, "Design of a Hybrid Transceiver Through P-Spice Simulation for Establishing Underwater Optical Wireless Communication Link", *Wireless Personal Communications*, 96(2), pp.2877-2889, 2017	https://doi.org/10.1007/s11277-017-4329-6
		Rohan Katti, Shanthi Prince, "Analysis of serial and parallel cascaded microring resonators: An FDTD approach" *Optik - International Journal for Light and Electron Optics*, 152 (Oct 2017) 36–48.	https://doi.org/ 10.1016/j.ijleo.2017.09.096
Dr. P. Aruna Priya	1	Nitish Das, Aruna Priya P, "FPGA Implementation of Reconfigurable Finite State Machine with Input Multiplexing Architecture Using Hungarian Method", *International Journal of Reconfigurable Computing January 2018* :1-15.	https://doi.org/10.1155/2018/6831901
Dr. J. Selvakumar	2	Narendran S, J.Selvakumar,"Digital Simulation of Superconductive memory system based on hardware description language modelling", *Advanced in Condensed Matter Physics,* Vol.2018, May.2018	https://doi.org/10.1155/2018/2683723
Dr. J. Manjula	1	J. Manjula, S. Malarvizhi, "Active inductor based tunable multiband RF front end design for UWB applications", *Analog Integrated Circuits and Signal Processing* ,Volume 95, Issue 2, 1 May 2018, Pages 195-207 .(SCI Indexed - IF 0.623.)	https://doi.org/10.1007/s10470-018-1168-7
Dr. P. Eswaran	1	Parthasarathy, E., Malarvizhi, S., "Modeling and analysis of MEMS capacitive differential pressure sensor structure for altimeter application", *Microsystem Technologies*, 2017, 23(5), pp. 1343-1349	https://doi.org/10.1007/s00542-015-2756-4
Dr. V. Nithya	1	C. Priyanka, V. Nithya and Vidhyacharan Bhaskar, "k–μ fading channels: a finite state Markov modelling approach," *Sadhana – Academy Proceedings in Engineering Sciences*, Vol. 43, No. 1, January 2018, pp. 1-6.	https://doi.org/10.1007/s12046-017-0779-5

Dr. Sabitha Gauni	1	Sabitha Gauni, C.T.Manimegalai, Karthick Narayanan, Doraditya Nandanamudi, “Reduction of Complexity of On-Board Embedded Robotic System Processors Using Code Offloading”, *Wireless personal Communications*, Vol.97, No.4, pp.1-10, September 2017 (SCI Expanded Impact Factor: 1.078).	https://doi.org/10.1007/s11277-017-4768-0
Dr. S. Dhanalakshmi	1	Hemalatha, V., Prabakaran, R., Dhanalakshmi, S., Jaba Deva Krupa, A.,Time Triggered Hybrid Scheduler with Dynamic Frequency Scaling for Distributed Real Time Embedded Systems,*Wireless Personal Communications*,2017 |	https://doi.org/10.1007/s11277-017-4620-6
Dr. M. Sangeetha	1	Sangeetha, M. Bhaskar, V., "NR-DCSK Based Chaotic Communications in MIMO Multipath Channels," *Wireless Personal Communications-An International Journal*, pp.1-16, May 2018.	https://doi.org/10.1007/s11277-018-5882-3
Dr. P. Vijayakumar	4	P. Vijayakumar, S. Malarvizhi, “Wide Band Full Duplex Spectrum Sensing with Self-Interference Cancellation–an Efficient SDR Implementation “*Mobile Networks & Applications,* 22(4), 702-711,2017 (SCI indexed ;IMP=3.259;	https://doi.org/10.1007/s11036-017-0844-7
		P.Vijayakumar, S.Malarvizhi, “Fuzzy Logic Based Decision System for Context Aware Cognitive Waveform Generation”, *Wireless Personal Communications* (ISSN No.0929-6212), 94(4), pp. 2681–2703, June 2017 (Science Citation Index, IF=0.951;	https://doi.org/10.1007/s11277-016-3879-3
		P. Vijayakumar,S. Malarvizhi , “Hardware Impairment Detection and Prewhitening on MIMO Precoder for Spectrum Sharing”, *Wireless Personal Communication*(ISSN No.0929-6212) , Springer Journal, 96(1), pp.1557–1576 , September 2017 (Science Citation Index, IF=0.951;	https://doi.org/10.1007/s11277-017-4256-6
		P.Vijayakumar, S. Malarvihi,” Green Spectrum Sharing: Genetic Algorithm Based SDR Implementation”, *Wireless Personal Communication* (ISSN No.0929-6212), Springer Journal, 94(4), pp 2303–2324, June 2017.	https://doi.org/10.1007/s11277-016-3427-1
Dr. R. Manohari	1	ManohariRamachandran, Shanthi Prince and DeepikaVerma, “Design and performance analysis of all-optical cascaded adder using SOA-based MZI”, *Journal of Computational Electronics,* 17(2), pp. 845-856, 2018.	https://doi.org/10.1007/s10825-018-1146-4
Dr. J. Subhashini	1	Subhashini, J. Bhaskar, V. “Ergodic Channel Capacity for Rayleigh Fading Channels with Impairments Due to Errors in M-Branch Hybrid Diversity Combining,” *Wireless Personal Communications*, vol. 94, no. 3, pp. 1035-1056, June 2017	https://doi.org/10.1007/s11277-016-3668-z
Dr. P. Radhika	1	P.Radhika, T.Vigneswaran, J.Selvakumar, Design of high performance filter bank multi-carrier transmitter, *cluster computing*, pp.1-7, 2018, SNIP-0.981	https://doi.org/10.1007/s10586-017-1679-5
Dr. S. Krithiga	2	S.Krithiga, Vidhyacharan Bhaskar and S.Malarvizhi, “Average channel capacity and bit error rate using threshold conditions for MIMO-OSTBC systems over η–μ Fading Channels” *Wireless Personal Communications,* vol. 94, no.3, pp.949-967, June 2017.	https://doi.org/10.1007/s11277-016-3659-0
		S.Krithiga, Vidhyacharan Bhaskar and S.Malarvizhi, “Average BER and capacity improvement in MIMO-OSTBC systems over η-μ fading channels with absolute SNR scheduling”, *Wireless Personal Communications*, vol.95, no.4, pp.4225-4242, Aug. 2017.	https://doi.org/10.1007/s11277-017-4076-8

Dr. Sandeep Kumar P	2	Geetha, Sandeep Kumar Palaniswamy, Mohammed Gulam Nabi Alsath, Malathi Kanagasabai and Tippuraju Rama Rao. “Compact and Flexible Monopole Antenna for Ultra-Wideband Applications Deploying Fractal Geometry”, Journal of Electrical Engineering and Technology, Vol 13, 400-405,January 2018	https://doi.org/ 10.5370/JEET.2018.13.1.400
		Yogeshwari Panneer Selvam, M Gulam Nabi Alsath, Malathi Kanagasabai, Lavanya Elumalai, Sandeep Kumar Palaniswamy, Sangeetha Subbaraj, Saffrine Kingsly, Gunaseelan Konganathan, Indhumathi Kulandhaisamy “A Patch-Slot Antenna Array With Compound Reconfiguration," *IEEE Antennas and Wireless Propagation Letters*, vol. 17, no. 3, pp. 525-528, March 2018	https://doi.org/ 10.1109/LAWP.2018.2801124
Dr. S. Sathiyan	1	J. Mohanraj, V. Velmurugan, S.Sathiyan and S.Sivabalan, “All fiber-optic Ultra-sensitive Temperature Sensor using few-layer MoS2 coated D-shaped fiber”, *Optics Communications*, (I.F. 1.961), 406, 2018, 139-144.	https://doi.org/10.1016/j.optcom.2017.06.011
Dr. Vivek Maik	1	Maik, V., Rani Aishwarya, S. N. & Paik, J. Blind deconvolution using maximum a posteriori (MAP) estimation with directional edge based priori". *Optik (Stuttg)*. 157, (2018).	https://doi.org/10.1016/J.IJLEO.2017.03.041
Dr. Kanaparthi V Phani Kumar	1	K. V. Phani Kumar and S. S. Karthikeyan, “Microstrip lowpass filter with flexible roll-off rates,” *AEU-International Journal of Electronics and Communications*, vol. 86, pp. 63-68, March 2018.	https://doi.org/10.1016/j.aeue.2018.01.025
Dr. Damodar Panigrahy	1	D Panigrahy, PK Sahu,"Extraction of fetal ECG signal by an improved method using extended Kalman smoother framework from single channel abdominal", ECG signal"*Australasian physical & engineering sciences in medicine* 40 (1), 191-207	https://doi.org/10.1007/s13246-017-0527-5
Dr. Soumyaranjan Routray	4	S. R. Routray, T. R. Lenka, "Polarization Charges in High Performance GaN/InGaN Core/Shell Multiple Quantum Well Nanowire for Solar Energy Harvesting" I*EEE Trans. on Nanotechnology*, vol. 17, no. 6, pp. 1118-1124,June 2018	https://doi.org/10.1109/TNANO.2018.2848287
		S. R. Routray, B. Shougaijam, T. R. Lenka, “Exploiting Polarization Charge for High Performance (000-1) facet GaN/InxGa1-xN Based Triangular Nanowire Solar Cell,” IEEE Journal of Quantum Electronics, vol. 53, no. 5, pp. 1-8, July 2017	https://doi.org/10.1109/JQE.2017.2734078
		S. R. Routray and T. R. Lenka,” Spontaneous and piezo-phototronics Effect on Geometrical Shape of III-Nitride Wurtzite Nanowires for High Efficiency Photovoltaic Applications”, IET Micro & Nano Letters, vol. 12, no. 12, pp. 924-927, Dec 2017	https://doi.org/10.1049/mnl.2017.0403
		S. R. Routray, T. R. Lenka, “Performance Analysis of Nanodisk and Core/Shell/Shell-Nanowire Type III-Nitride Heterojunction Solar Cell for Efficient Energy Harvesting,” Superlattices and Microstructures (Elsevier), vol.111, no. 12, pp.776-782, Nov. 2017.	https://doi.org/10.1016/j.spmi.2017.07.038
Dr. Rajesh Agarwal	1	R. Agarwal and B. Mazhari, “An Organic Temperature Sensor Based on Asymmetric Metal Insulator Semiconductor Capacitor with Electrically Tunable Sensing Area”, IEEE Sensors Letters, vol. 2, issue 1, p.1-4, Mar. 2018	https://doi.org/10.1109/LSENS.2018.2800755
		C Nayak, A Aghajamali and A Saha, "Periodic multilayer magnetized cold plasma containing a doped semiconductor," *Indian Journal of Physics*, Vol. 92, Issue no. 7, pp. 911-917, July, 2018.	https://doi.org/10.1007/s12648-018-1176-6

Dr. Chittaranjan Nayak	4	C Nayak, A Aghajamali, T Alamfard and A Saha, "Tunable photonic band gaps in an extrinsic Octonacci magnetized cold plasma quasicrystal," *Physica B: Condensed Matter*, Vol. 525, Issue 15, pp. 41-45, November, 2017.	https://doi.org/10.1016/j.physb.2017.08.075
		C Nayak, A Aghajamali and A Saha,"Double-negative multilayer containing an extrinsic random layer thickness magnetized cold plasma photonic quantum-well defect," *Superlattice and Microstructures*, Vol. 111, pp. 248-254, November, 2017.	https://doi.org/10.1016/j.spmi.2017.06.041
		C Nayak, A Aghajamali, F Scotognella and A Saha, "Effect of standard deviation, strength of magnetic field and electron density on the photonic band gap of an extrinsic disorder plasma photonic structure," *Optical Material*, Vol. 72, pp. 25-30, October 2017.	https://doi.org/10.1016/j.optmat.2017.05.021
Mrs. K. Suganthi	2	Suganthi, K. Malarvizhi, S,"Design and analysis of high gain and low noise figure CMOS low noise amplifier for Q-band nano-sensor application".*Materials Research Express* Volume 5, Issue 3, March 2018, Article number 034001.	https://doi.org/10.1088/2053-1591/aaafea
		Suganthi, K., and S. Malarvizhi. "Millimeter wave CMOS minimum noise amplifier for automotive radars in the frequency band (60–66 GHZ)." *Cluster Computing* 22.5 (2019): 11755-11764.	https://doi.org/10.10007/s10586-017-1475-2.
Dr.T. RajaLakshmi	1	U.Snekhalatha, T.Rajalakshmi, Gopikrishnan, Nilkantha Gupta (2017) "Computer based automated analysis of x-ray and Thermal imaging of Knee region in Evaluation of Rheumatoid arthritis" *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, on line*: 27th October 2017 (IF: 1.124)	https://doi.org/10.1177/0954411917737329
Ms. S. Suhasini	2	V Pandiyarasan, S Suhasini, J Archana, M Navaneethan, Abhijit Majumdar, Y Hayakawa, H Ikeda,"Fabrication of hierarchical ZnO nanostructures on cotton fabric for wearable device applications",*Applied Surface Science*,Volume 418, Part A, 1 October 2017, Pages 352-361.	https://doi.org/10.1016/j.apsusc.2016.12.202
		Pandiyarasan Veluswamy, Suhasini Sathiyamoorthy, Kalari Hanuman Chowdary, Omprakash Muthusamy, Karthikeyan Krishnamoorthy, Tsunehiro Takeuchi, Hiroya Ikeda,Morphology dependent thermal conductivity of ZnO nanostructures prepared via a green approach",*Journal of Alloys and Compounds,*Volume 695,888-894 ,2017/2/25.	https://doi.org/10.1016/j.jallcom.2016.10.196
Mrs. A. Jaba Deva Krupa	1	Hemalatha, V., Prabakaran, R., Dhanalakshmi, S., Jaba Deva Krupa, A.,Time Triggered Hybrid Scheduler with Dynamic Frequency Scaling for Distributed Real Time Embedded Systems,*Wireless Personal Communications,*2017	https://doi.org/10.1007/s11277-017-4620-6
Dr. C. T. Manimegalai	1	C. T. Manimegalai, Sabitha Gauni, K. Kalimuthu, " Efficacy analysis of LDPC coded APSK modulated differential space-time-frequency coded for wireless body area network using MB-pulsed OFDM UWB technology ", *Technology and Health Care*, Vol1, no.1, 2017. SCI Impact Factor: 0.72	https://doi.org/10.3233/THC-171012
Dr. M. Susila	2	Subathra Thavakumar, M. Susila, " Design and Simulation of dual band planar inverted F-antenna for IRNSS", *Journal of Mines, Metals & fuels*, Special Issue, 2018,	No DOI Assigned
		Susila Mohandoss , Rama Rao T, B N Balarami Reddy, Sandeep Kumar Palaniswamy and Pushpalatha Marudappa, "Fractal based Ultra-Wideband antenna development for Wireless Personal Area Communication Applications", *AEU-International Journal of Electronics and Communications,* Vol. 93, , pp. 95-102, 2018.	https://doi.org/10.1016/j.aeue.2018.06.009
		Sachin Kumar, et.al "Multiband Integrated Wideband Antenna for Bluetooth/WLAN Applications",*AEU - International Journal of Electronics and Communications* Volume 89, May 2018, Pages 77-84 DOI: 10.1016/j.aeue.2018.03.027	https://doi.org/10.1016/j.aeue.2018.03.027

Dr. Sachin Kumar	4	Sachin Kumar, et.al , " Compact ultra‐wideband microstrip antenna with dual polarisation/multi‐notch characteristics",*IET Microwaves Antennas & Propagation* 12(9)March 2018	https://doi.org/10.1049/el.2017.451
		Sachin Kumar, et.al ,"MIMO Antenna with Built-in Circular Shaped Isolator for Sub-6 GHz 5G Applications," *Electronics Letters* 54(8) February 2018,Sachin Kumar, et.al 4	https://doi.org/10.1049/el.2017.451
		Sachin Kumar, et.al , "Compact Microstrip Antennas with very Wide ARBW and Triple Circularly Polarized Bands," *A International Journal of RF and Microwave Computer-Aided Engineering* 28(1):e21162, August 2017	https://doi.org/10.1002/mmce.21162
Dr. Gousya Begum	2	K.Ghousiya Begum, et,al, "Enhanced IMC based PID controller design for non-minimum phase (NMP) interating processes with time delays", *ISA transaction*, 68,223-234,2017	https://doi.org/10.1016/j.isatra.2017.03.005
		K.Ghousiya Begum, et,al "Optimal controller synthesis for second order time delay systems with atleast one RHP pole, *ISA transaction*,73,181-188,2018	https://doi.org/10.1016/j.isatra.2017.12.025
Mrs.V.Hemalatha	1	Bakhale, M., Hemalatha, V., Samiappan Dhanalakshmi, Kumar, R., Siddharth Jain, M.A Dynamic Inertial Weight Strategy in Micro PSO for Swarm Robots,"*Wireless Personal Communications*2020	https://doi.org/10.1007/s11277-019-06743-x
Dr. Maheswaran Palani	1	P. Maheswaran,"Dynamic SSK-BPSK System Under Transmitter Correlated Nonidentical Rayleigh Fading" *IEEE SYSTEMS JOURNAL*.,88,223-234,2018	https://doi.org/ 10.1109/JSYST.2018.2828220

https://doi.org/10.1049/iet-cds.2017.0190