SRM Institute of Science and Technology
College of Engineering and Technology
Department of Electronics and Communication Engineering
Academic Year 2019-2020
Scientific Citation Indexed Publications

Faculty Name	Count	Article title	DOI
Dr. T. Rama Rao	3	Vaishnavi M, Revathi Venkataramana and T. Rama Rao; "Security and privacy attacks during data communication in Software Defined Mobile Clouds"; *Elsevier, Computer Communications*, Vol.153, P. 515-526, March 2020.	https://doi.org/10.1016/j.comcom.2020.02.030
		Sreedevi A G, Rama Rao T and Susila M, "Device-to-Device Radio Link Analysis at 2.4, 3.4, 5.2, 28 and 60 GHz in Indoor Communication Environments", *Frequenz,* Vol. 73, Issue 3-4, pp. 1- 10, 2019.	https://doi.org/10.1007/s11277-019-06493-w.
		A. G. Sreedevi, T. Rama Rao & M. Susila, "Measurements at 2.4, 3.4, 5.2, 28 and 60 GHz for Device-to-Device Wireless Communications", *Wireless Personal Communications*,Vol.108, Issue.3, p.1733–1743, Oct 2019	https://doi.org/10.1007/978-981-10-8663-2_20
Dr. B. Ramachandran	1	R. Guhan, U. Hari, and B. Ramachandran, "Enhancement of QOS parameters in cluster-based wireless sensor network using cooperative MIMO", *Lecture Notes in Electrical Engineering*, Vol. 493, pp 187-195, 2019.	https://doi.org/10.1007/978-981-10-8663-2_20
Dr. R. Kumar	2	Biswal, Amita, R. Kumar, Chittaranjan Nayak, and Dhanalakshmi Samiappan," Photonic transmission spectra in an extrinsic semiconductor based Gaussian random multilayer." *Optical Materials* ,102,Article ID: 109799, April 2020	https://doi.org/10.1016/j.optmat.2020.109799
		Babu, SB Sumith, and R. Kumar, "A High Capacity 1D-Chaotic-Collaborative-CDMA Scheme for Shared Band 5G-IoT Operation." *Wireless Personal Communications*, pp.1-8, June 2020	https://doi.org/10.1007/s11277-020-07572-z
		*Rohan Katti, Shanthi Prince , "T*erahertz signal generation based on a microwave photonic system with add-drop microring resonator*", Microwave and Optical Technology Letters, 03 April 2020, https://doi.org/10.1002/mop.32375*	https://doi.org/10.1002/mop.32375

Dr. Shanthi Prince	3	Rahul Bosu, and Shanthi Prince, “Steerable reflector-assisted communication in obstructed line-of-sight FSO link with optimal mitigation of dust-induced signal fading”, P*hotonic Network Communications*, Volume 38, pages 314–325	https://doi.org/10.1007/s11107-019-00862-y
		Rohan Katti, Shanthi Prince, “A Survey on Role of Photonic Technologies in 5G Communication Systems”, *Photonic Network Communications*	https://doi.org/10.1007/s11107-019-00856-w
Dr. P. Aruna Priya	3	*S. Anita, P. Aruna Priya “*Diagnosis of Parkinson’s Disease at an Early Stage Using Volume Rendering SPECT Image Slices*”, Arabian Journal for Science and Engineering , Springer, pp 1–13, October 2019.*	https://doi.org/10.1007/s13369-019-04152-7
		Nitish Das, P. Aruna Priya, “A Gradient-Based Interior-Point Method to Solve the Many-to-Many Assignment Problems”, July 2019, Complexity 2019:1-13	https://doi.org/10.1155/2019/8405036
		Anitharaj Nagrajan, Aruna Priya P, Pandian Chelliah , Hiroaki Satoh, Hiroshi Inokawa, “Optimization of electric field enhancement of Ag@SiO2 trimer nanospheres by finite difference time domain method*”, August 2019, Applied Surface Science 495:143547*	https://doi.org/10.1016/j.apsusc.2019.143547
Dr. A. Ruhan Bevi	1	Ruhan Bevi, P. Monurajan & J. Manjula., Design of Hopfield network for cryptographic application by spintronic memristors.," *Neural Computing and Applications,* August 2019. (SCI impact factor 4.77)	https://doi.org/10.1007/s00521-019-04454-901
Dr. J. Selvakumar	2	Remya Raj, J.Selvakumar, Vivek Maik, "AFOSS:Heart-Rate Estimation Methods from Phtoplethymographic signals with motion artifacts using Fourier Sparse Dual Optimization", *IEEE sensors Journal*, vol.19, no.21, Nov.2019	https://doi.org/10.1186/s13634-020-00714-2
		Gomatheeswari B, J. Selvakumar,"Appropriate Allocation of workload on performance asymmetric multicore architecture via deep learning algorithms", *Microprocessor & Microsystems,* vol.7(3), Jan 2020	https://doi.org/10.1016/j.micpro.2020.102996

Dr. Diwakar R Marur	1	Diwakar R. Marur, Vidhyacharan Bhaskar and Amita Nandal, “A Novel Architecture for Production of Glance-Friendly Online Documents Using Semiformal Approach” *Proceedings of Natitonal Academy Sciences*, India, Section A Physical Sciences, 2020.	https://doi.org/ 10.1007/s40010-020-00660-6
Dr. V. Nithya	1	V. Nithya, C. Priyanka, and Vidhyacharan Bhaskar, “ Joint Phase and Amplitude Modeling Using a Finite-State Markov Chain for η–μ Fading Channels,” *Wireless Personal Communications,* Vol. 112, pp. 923-940, Jan 2020.	https://doi.org/10.1007/s11277-020-07083-x
Dr. K. Kalimuthu	1	Krishnan, Kalimuthu, Sabitha Gauni, C. T. Manimegalai, and V. Malsawmdawngliana. "Ambient noise analysis in underwater wireless communication using laser diode." *Optics & Laser Technology* 114 (2019): 135-139	https://doi.org/10.1016/j.optlastec.2018.12.041
Dr. M. Sangeetha	1	Sangeetha, M., Bhaskar, V., "Improved Non-coherent Communication Systems Using Noise Reduction Chaotic ON–OFF Keying (NR-COOK) Techniques" *Wireless Personal Communication-An International Journal*, ,Vol. 113, no. 2, pp. 1297-1314, April 2020.	https://doi.org/10.1007/s11277-020-07280-8
Dr. S. Dhanalakshmi	8	Chakravartula, V., Samiappan Dhanalakshmi,Bio-inspired cooperative diversity link in underwater optical wireless communication,"*Optics and Laser Technology*, 2019 | journal-article,DOI: 10.1016/j.optlastec.2019.03.029	https://doi.org/10.1016/j.optlastec.2019.03.029
		CR, Uma Kumari, Dhanalakshmi Samiappan, R. Kumar, and Tata Sudhakar," Development and experimental validation of a Nuttall apodized fiber Bragg Grating sensor with a hydrophobic polymer coating suitable for monitoring sea surface temperature." *Optical Fiber Technology*,56, Article ID: 102176, May 2020	https://doi.org/10.1016/j.yofte.2020.102176
		Chakravartula, Venkatesh, Dhanalakshmi Samiappan, and R. Kumar,"Sensitivity enhancement analysis due to different coating materials of Fibre Bragg Grating-based depth sensor for underwater applications." *Optical and Quantum Electronics,* 52, 1, pp.27, Jan 2020	https://doi.org/10.1007/s11082-019-2144-x
		Samiappan, Dhanalakshmi, A. V. S. Kesarikiran, Venkatesh Chakravartula, CR Uma Kumari, Kumar Shubham, Bolisetty Aakash, and R. Kumar,"Enhancing Sensitivity of Fiber Bragg Grating-Based Temperature Sensors through Teflon Coating." *Wireless Personal Communications,* 110, no. 2, pp.593-604, Jan 2020	https://doi.org/10.1007/s11277-019-06744-w

Dr. S. Dhanalakshmi	8	Kuresan, H., Samiappan, D., Masunda, S.Fusion of wpt and mfcc feature extraction in parkinsons disease diagnosis,"*Technology and Health Care*,2019 | journal-article, DOI: 10.3233/THC-181306	https://doi.org/10.3233/THC-181306
		Kumari, CR Uma, Dhanalakshmi Samiappan, R. Kumar, and Tata Sudhakar. "Development of a highly accurate and fast responsive salinity sensor based on Nuttall apodized Fiber Bragg Grating coated with hygroscopic polymer for ocean observation." *Optical Fiber Technology* ,53, Article ID: 102036, Dec 2019	https://doi.org/10.1016/j.yofte.2019.102036
		Dhanalakshmi Samiappan, S.Latha, T.Rama Rao, Deepak Verma and CSA Sriharsha, "Enhancing Machine Learning Aptitude using Significant Cluster Identification for Augmented Image Refining", International Journal of Pattern Recognition and Artificial Intelligence, 2019.	https://doi.org/10.1142/S021800142051009X
		Mathias, A., Samiappan, D.,Underwater image restoration based on diffraction bounded optimization algorithm with dark channel prior,Optik,2019 | journal-articleDOI: 10.1016/j.ijleo.2019.06.025	https://doi.org/10.1016/j.ijleo.2019.06.025
Dr. P. Vijayakumar	1	Pradeep Mohan Kumar Kanagasabapathy, Vijayakumar Kedalu Poornachary, Saravanan Murugan, Arivazhagan Natesan, Vijayakumar Ponnusamy,Rapid jamming detection approach based on fuzzy in WSN," *International Journal of Communication Systems* oct ,2019. (SCI Indexed)	https://doi.org/10.1002/dac.4205
Dr. R. Manohari	1	Manohari Ramachandran,Shanthi Prince, Archana Kambham, Naga Maruthi, "Design and simulation of all optical shift registers using D flip-flop", *Microwave Optical Technology Letter*. 2020;1–12.	https://doi.org/10.1002/mop.32350
Dr. J. Subhashini	1	J. Subhashini and C. Manoj kumar, "An Algorithm to Identify Syllable from a Visual Speech Recognition System," *Wireless Personal Communications*, vol. 107, no. 4, pp. 2105-2121, 2019	https://doi.org/10.1007/s11277-019-06374-2
Dr. R. Dayana	1	Dayana, R., Malarvezhi, P., Vadivukkarasi, K., Kumar, R., UFMC-IOTA Based Cognitive Radio Transceiver ," *Wireless personal communication,* Oct 2020, Vol 114, pp-2105–2119 IF:0.912	https://doi.org/10.1007/s11277-020-07467-z

Dr. P. Malarvezhi		Devi, S., Malarvezhi, P., Dayana, R., Vadivukkarasi, K., A Comprehensive Survey on Autonomous Driving Cars: A Perspective View ," *Wireless personal communication*, Vol 114, pp-2121–2133, IF:0.912, Oct 2020.	https://doi.org/10.1007/s11277-020-07468-y
Dr. Sandeep Kumar P	8	Saffrine Kinglsy, Deepa Thangarasu, Malathi Kanagasabai, M Gulam Nabi Alsath, Sandeep Kumar Panaiswamy, Thipparaju Rama Rao, Sangeetha Subbaraj, Yogeshwari Panneer Selvam, Padmathilagam Sambandam, Geetha Ganesan, "Tunable Band-Notched High Selective UWB Filtering Monopole Antenna", *IEEE Transactions on Antennas and Propagation*, vol. 67, no. 8, pp. 5658-5661, August	https://doi.org/10.1109/TAP.2019.2920997
		Padmathilagam Sambandam, Sangeetha Subbaraj, Malathi Kanagasabai, M. Gulam Nabi Alsath, Deepa Thangarasu, Rajesh Natarajan, Sandeep kumar Palaniswamy, Rama Rao Tippuraj, "Integration of Slot Array with MIMO Antenna for 4G and 5G Applications", *Wireless Personal Communications*, https://doi.org/10.1007/s11277-019-06705-3 December 2019	https://doi.org/10.1007/s11277-019-06705-3
		Sangeetha Velan, Malathi Kanagasabai, Jayaram Kizhekke Pakkathillam, Sandeep Kumar Palaniswamy, Rama Rao Tippuraj, "Spurious Passband Suppression in compact microstrip rat-race coupler deploying modified split rings and coupled microstrip lines", *Wireless Personal Communications* 109, pp. 2733-2740, December 2019	https://doi.org/10.1007/s11277-019-06706-2
		Sangeetha Subbaraj, Malathi Kanagasabai, M.Gulam Nabi Alsath, Sandeep Kumar Palaniswamy, Saffrine Kinglsy, Indhumathi kulandhaisamy, Arun Kumar Shrivastav, Rajesh Natarajan, Meiyalagan Shanmugapriya, "A Compact Frequency Reconfigurable Antenna with Independent Tuning for Hand-held wireless Devices", *IEEE Transactions on Antennas and Propagation*, vol. 68, no. 2, pp. 1151-1154	https://doi.org/10.1109/TAP.2019.2938668
		Padmathilagam Sambandam, Malathi Kanagasabai, Shini Ramadoss, Rajesh Natarajan, M.Gulam Nabi Alsath, Shanmathai Shanmuganathan, M. Sindhadevi, Sandeep Kumar Palaniswamy, "Compact Monopole Antenna Backed With Fork Slotted EBG For Wearable Applications", *IEEE Antennas and Wireless Propagation letters*, vol 19, no 2, pp 228-232 February 2020	https://doi.org/10.1109/LAWP.2019.2955706
		Sangeetha Subbaraj, Malathi Kanagasabai, Gulam Nabi Alsath Mohammed, Sandeep Kumar Palaniswamy, Rama Rao Tipparaju, Safrine Kingsly, Yogeshwari Panneer Selvam, "Integrated 4G/5G Multiservice MIMO antenna for Hand-Held Devices", *Wireless Personal Communications* 111, pp. 2023-2043, April 2020	https://doi.org/10.1007/s11277-019-06970-2
		P. Sambandam, M. Kanagasabai, R. Natarajan, M. G. N. Alsath and Sandeep Kumar Palaniswamy, "Miniaturized Button like WBAN antenna for Off body communication", *IEEE Transactions on Antennas and Propagation*, March 2020	https://doi.org/10.1109/TAP.2020.2980367

		Deepa Thangarasu, Safrine Kinglsy, Malathi Kanagasabai, Gulam Nabi Alsath, Padmathilagam Sambandham, Sridhar Bilvam, Sandeep Kumar Palaniswamy, Rama Rao Tippuraj,"Banwidth Reconfigurable Filtering Antenna" *Wireless Personal Communications* 105, pp. 1545-1560, 2019	https://doi.org/10.1007/s11277-019-06159-7
Dr. Soumyaranjan Routray	2	N. Laxmi, S. R. Routray*, K. P. Pradhan, "Effect of Strain-Modulated Multiple Quantum Wells on Carrier Dynamics and Spectral Sensitivity of III-Nitride Photosensitive Devices " *IEEE Sensor Journal,* January, 2020.	https://doi.org/10.1109/JSEN.2020.2971005
		S. Sahoo, S. Dash, S. R. Routray, G. P. Mishra, "Impact of drain doping engineering on ambipolar and high-frequency performance of ZHP line-TFET "*Semiconductor Science and Technology,* March, 2020.	https://doi.org/0000-0003-0326-7619
Dr. Rajesh Agarwal	2	R. Agarwal, "Threshold voltage extraction for organic thin film transistor in linear region using asymmetric metal insulator semiconductor capacitive test structure," *Semiconductor Science and Technology*, vol. 34, issue 9, pp. 095024, Sept 2019	https://doi.org/10.1088/1361-6641/ab3817
		R. Agarwal, "Characterization of Process Induced Non–Uniformity Using Asymmetric Metal Insulator Semiconductor Capacitive Test Structure," *IEEE Transactions on Electron Devices,* vol. 66, issue 9, p. 3940-3945, Sept 2019	https://doi.org/10.1109/TED.2019.2927505
Dr. Chittaranjan Nayak	3	C Nayak, A Saha, A Aghajamali, N Das, "Near- and Mid-infrared tunable bandgaps in a 1D superconductor-semiconductor metamaterial photonic crystal," *International journal of modern physics B,* Vol. 33, issue 20, pp. 1950219, August, 2019.	https://doi.org/10.1142/S0217979219502205
		C Nayak, "Dodecanacci extrinsic magnetized plasma multilayer" *Optical Materials,* Vol. 100, pp. 109653, February, 2020.	https://doi.org/10.1016/j.optmat.2020.109653
		C Nayak, C G Bezerra, C H Costa, "Photonic transmission spectra in graphene-based Gaussian random multilayers," *Optical Materials*, Vol. 104, pp. 109838, June, 2020.	https://doi.org/ 10.1016/j.optmat.2020.109838

Dr.Shyamal Mondal	1	Mitra, Nilanjan, Alak K. Patra, Satya P. Singh, Shyamal Mondal, Prasanta K. Datta, and Shailendra K. Varshney. "Interfacial delamination in glass-fiber/polymer-foam-core sandwich composites using singlemode–multimode–singlemode optical fiber sensors: Identification based on experimental investigation." *Journal of Sandwich Structures & Materials* 22, no. 1 (2020): 40-54.	https://doi.org/10.1177%2F1099636217733983
Mrs. K. Suganthi	1	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.
Mrs. J. K. Kasthuri Bha	2	J.K.Kasthuri Bha, P. Aruna Priya, "10 nm Trigate High k Underlap FinFETs: Scaling Effects and Analog Performance," in *Silicon,* Dec. 2019	https://doi.org/10.1007/s12633-019-00299-y
		J.K.Kasthuri Bha, P.Aruna Priya, "Low Power and High Gain Differential Amplifier using 16 nm FinFET," *Microprocessors and Microsystems,* Vol. 71, Nov. 2019.	https://doi.org/10.1016/j.micpro.2019.102873
Mrs. K. Ferents Koni Jiavana	1	K. Ferents Koni Jiavana, S. Malarvizhi, "Lattice reduction aided pre-processor for large scale MIMO detection" ,*Microprocessors and Microsystems* ,Volume 71, November 2019	https://doi.org/10.1016/j.micpro.2019.102851
Mrs. S. Vasanthadev Suryakala	1	S.Vasanthadev Suryakala, Shanthi Prince, " Investigation of goodness of model data fit using PLSR and PCR regression models to determine informative wavelength band in NIR region for non-invasive blood glucose prediction", Journal of Optical and Quantum Electronics, 51:271, July 2019.	https://doi.org/10.1007/s11082-019-1985-7
Mrs. V. Padmajothi	1	V.Padmajothi,J.L. Mazher Iqbal,"Adaptive neural fuzzy inference system-based scheduler for cyber–physical system", *Soft Computing*, May 2020	https://doi.org/10.1007/s00500-020-05020-5
Mr. S. Bashyam	1	Bashyam S and Ramachandran B, "Design and Analysis of Fractal Based Monopole Antenna Backed with Modified Jerusalem Cross Frequency Selective Surface for Wireless Personal Area Communications" *Mobile Network Applications,* 25, 2092–2101 (2020). https://doi.org/10.1007/s11036-020-01511-9. (SCI) IF:2.602.	https://doi.org/10.1007/s11036-020-01511-9

Dr.T. RajaLakshmi	1	U.Snekhalatha, T.Rajalakshmi, Nilkanth Gupta, Suma (2019), Thermography and Colour Doppler Ultrasound: A Potential Complimentary Diagnostic Tool in Evaluation of Rheumatoid Arthritis in Knee Region," *Biomedical Engineering* online 10th dec 2019 DOI: https://doi.org/10.1515/bmt-2019-0051	https://doi.org/10.1515/bmt-2019-0051
R.Prithiviraj	1	Rajalingam, P., Jayakumar, S. & Routray, S. Design and Analysis of Low Power and High Frequency Current Starved Sleep Voltage Controlled Oscillator for Phase Locked Loop Application. *Silicon* (2020).	https://doi.org/10.1007/s12633-020-00619-7
Mrs. S. Latha	2	Dhanalakshmi Samiappan, S.Latha, T.Rama Rao, Deepak Verma and CSA Sriharsha, "Enhancing Machine Learning Aptitude using Significant Cluster Identification for Augmented Image Refining", *International Journal of Pattern Recognition and Artificial Intelligence,* 2019.	https://doi.org/10.1142/S021800142051009X
		S.Latha, Dhanalakshmi Samiappan, R.Kumar, "Carotid Artery Ultrasound Image Analysis: A review of the literature", *Part H: Journal of Engineering in Medicine*, 2020.	https://doi.org/10.1177/0954411919900720
Mrs. S. Hannah Pauline	1	S. Hannah Pauline, Dhanalakshmi Samiappan, R.Kumar, Ankita Anand, Asutosh Kar, "Variable tap-length non-parametric variable step-size NLMS adaptive filtering algorithm for acoustic echo cancellation", Vol. 159, Feb 2020, https://doi.org/10.1016/j.apacoust.2019.107074	https://doi.org/10.1016/j.apacoust.2019.107074
Mrs. R. Monika	1	Monika, R., Dhanalakshmi Samiappan, and R. Kumar. "Underwater image compression using energy based adaptive block compressive sensing for IoUT applications." *The Visual Computer (2020)*: 1-17.	https://doi.org/10.1007/s00371-020-01884-8
Mr. P. Prabhu	1	Palanisamy Prabhu, Subramani Malarvizhi, Novel double-side EBG based mutual coupling reduction for compact quad port UWB MIMO antenna, *AEU - International Journal of Electronics and Communications,* Volume 109, 2019.	https://doi.org/10.1016/j.aeue.2019.06.010
Dr. T. Deepa	1	T.Deepa, Harshita Mathur, "Performance Analysis of Digitized Orthogonal Frequency Division Multiplexing System for Future Wireless Communication", *Wireless Personal Communications,* August 2019.(SCI: 0.929).	https://doi.org/10.1007/s11277-019-06678-3.

Dr. C. Vimala	1	Vimala.C, P. Aruna Priya, “Artificial Neural Network based Wavelet Transform Technique for Image Quality Enhancement”, *Computers and Electrical Engineering*,76 (2019)PP.258-267	https://doi.org/10.1016/j.compeleceng.2019.04.005
Mrs. K. Harisudha	1	Harisudha kuresan,Dhanalakshmi Samiappan, Sam Masunda, "Fusion of WPT and MFCC feature extraction in Parkinson’s disease diagnosis", 27(5):1-10,Jan 2019. DOI: 10.3233/THC-181306	https://doi.org/10.3233/THC-181306
Dr. Sachin Kumar	2	Sachin Kumar, et.al, "Multiple‐Input‐Multiple‐Output/Diversity Antenna with Dual Band-Notched Characteristics for Ultra‐Wideband Applications," *Microwave and Optical Technology Letters*, August 2019,DOI: 10.1002/mop.32012	https://doi.org/10.1002/mop.32012
		Sachin Kumar, et.al, "Wideband Bended CPS‐to‐Microstrip Transition for Millimeter‐wave Antenna‐Detector Module," *Microwave and Optical Technology Letters,* January 2020 DOI: 10.1002/mop.32255	https://doi.org/10.1002/mop.32255