

SRM Institute of Science and Technology
College of Engineering and Technology
Department of Electronics and Communication Engineering
Academic Year 2020-2021
Scientific Citation Indexed Publications

Faculty Name	Count	Article title	DOI
Dr. T. Rama Rao	2	M.Pushpalatha, T.Anushaa, T.Rama Rao, RevathiVenkataraman;; “L-RPL: RPL powered by laplacian energy for stable path selection during link failures in an Internet of Things network”; Elsevier's Computer Networks, Vol. 184, January 2021. (SCI IF: 3.111)	https://doi.org/10.1016/j.comnet.2020.107697
		Sreedevi A G and T. Rama Rao; "SINR based Association Algorithm for Indoor Device-to-Device Communication Networks", Springer's Peer-to-Peer Networking and Applications, Vol.13, P.1921–1930, June 2020 (SCI IF: 2.793)	https://doi.org/10.1007/s12083-020-00951-0
Dr. B. Ramachandran	2	Banupriya P and Ramachandran B, “Prediction of epileptic seizures using Grey Wolf Optimized Model Driven mathematical approach”, Microprocessors and Microsystems, Nov., 2020. DOI: 10.1016/j.micpro.2020.103370 (Elsevier, IF 1.161, SNIP 0.879)	https://doi.org/10.1016/j.micpro.2020.103370
		Banupriya P and Ramachandran B, “Dynamic Learning Framework for Epileptic Seizure Prediction using Sparsity based EEG Reconstruction with Optimized CNN Classifier”, Journal of Expert Systems With Applications	https://doi.org/10.1016/j.eswa.2020.114533
		Sathiyamoorthy S, Kumar R, Neppolian B, Samiappan D, Singh SP, Roy S, Dwivedi N, Veluswamy P, "Comprehensive Study and Realizing an Enhanced Efficiency of the Thermoelectric Generator Along with Its Thermomechanical Properties", Journal of Electronic Materials, 4, pp.1-9, Jan 2021	https://doi.org/10.1007/s11664-020-08662-1

Dr. R. Kumar	6	Biswal A, Kumar R, Nayak C, Samiappan D, "n-GaAs based extrinsic Dodecanacci photonic quasicrystal", Physica B: Condensed Matter,15, 595, Article ID: 412340, Oct 2020	https://doi.org/10.1016/j.physb.2020.412340
		Monika R, Samiappan D, Kumar R., "Underwater image compression using energy based adaptive block compressive sensing for IoUT applications." The Visual Computer, 27, pp.1-7, June 2020	https://doi.org/10.1007/s00371-020-01884-8
		Babu, SB Sumith, R. Kumar, "A High Capacity 1D-Chaotic-Collaborative-CDMA Scheme for Shared Band 5G-IoT Operation," Wireless Personal Communications , 115, 1, pp.307-314, Nov 2020	https://doi.org/10.1007/s11277-020-07572-z
		Monika R, Samiappan D, Kumar R, "Adaptive block compressed sensing-a technological analysis and survey on challenges, innovation directions and applications", Multimedia Tools and Applications, 80, 3, pp.4751-4768, Jan 2021	https://doi.org/10.1007/s11042-020-09932-0
		Dayana R, Malarvezhi P, Vadivukkarasi K, Kumar R, "UF0MC-IOTA Based Cognitive Radio Transceiver. Wireless Personal Communications", 114, 2105-2119, Oct 2020.	https://doi.org/10.1007/s11277-020-07467-z
		Anitharaj Nagarajan ^{1, 2} , Shusuke Hara ³ , Hiroaki Satoh ^{3, 4} , Aruna Priya Panchanathan ² , and Hiroshi Inokawa, "Angular selectivity of SOI photodiode with surface plasmon antenna" IEICE Electronics Express, Vol.17, No.13, 1–6, July 2020	https://doi.org/10.1587/elex.17.20200187

Dr. P. Aruna Priya	4	NitishDas, ArunaPriya P "Reset: A Reconfigurable state encoding technique for FSM to achieve security and hardware optimality " Volume 77, September 2020, 103196 Microprocessors and Microsystems	https://doi.org/10.1016/j.micpro.2020.103196
		Anitharaj Nagarajan1, 2, Shusuke Hara3, Hiroaki Satoh3, 4, Aruna Priya Panchanathan2,and Hiroshi Inokawa, "Angle-Sensitive Detector Based on Silicon-On-Insulator Photodiode Stacked with Surface Plasmon Antenna "Sensors 2020, 20(19), 5543; september 2020	https://doi.org/10.3390/s20195543
		NitishDas, ArunaPriya P "FB-GSA: A fuzzy bi-level programming based gravitational search algorithm for unconstrained optimization" Applied Intelligence, October 2020	https://doi.org/10.1007/s10489-020-01884-0
Dr. J. Selvakumar	2	Remya Raj Jayakumar Selvakumar, & Maik, and V. M. (2020). Smart automated heart health monitoring using photoplethysmography signal classification. Biomedical Engineering / Biomedizinische Technik.	https://doi.org/10.1515/bmt-2020-0113
		S.Narendran, J.Selvakumar and K.Vijayan ,” Reconfigurable superconducting FFT processor using bit-slice block share processing unit” Microprocessors and Microsystems 79 (October 2020),Elsevier.(Impact factor 1.161)	https://doi.org/10.1016/j.micpro.2020.103297
Dr. V. Nithya	1	Anoop, C.V., Bhaskar, V. & Nithya, V. Lower Complex Resource Allocation Methodology based on Graph Theory and Index Matrix Rearrangement for OFDMA/MIMO-OFDMA Systems. Wireless Pers Commun (2021). https://doi.org/10.1007/s11277-021-08124-9	https://doi.org/10.1007/s11277-021-08124-9

Dr. Sabitha Gauni	1	Ananda Venkatesan Boologam, Kalimuthu Krishnan, Sandeepkumar Palaniswamy, C.T. Manimegalai, Sabitha Gauni, "On the Design and Analysis of Compact Super-Wideband Quad Element Chiral MIMO Array for High Data Rate Applications" ,Electronics, Volume 9, Issue 12, Nov 2020	https://doi.org/10.3390/electronics9121995
Dr. K. Kalimuthu	2	Ramesh Krishnamoorthy, Kalimuthu Krishnan, Bharatiraja Chokkalingam, Sanjeevikumar Padmanaban, Zbigniew Leonowicz, Jens Bo Holm-Nielsen, Massimo Mitolo, "Systematic Approach for State-of-the-Art Architectures and System-on-Chip Selection for Heterogeneous IoT Applications," in IEEE Access, vol. 9, pp. 25594-25622, 2021, February 2021.	https://doi.org/10.1109/ACCESS.2021.3055650
		Ananda Venkatesan Boologam, Kalimuthu Krishnan, Sandeepkumar Palaniswamy, C.T. Manimegalai, Sabitha Gauni, "On the Design and Analysis of Compact Super-Wideband Quad Element Chiral MIMO Array for High Data Rate Applications" ,Electronics, Volume 9, Issue 12, Nov 2020	https://doi.org/10.3390/electronics9121995
Dr. M. Sangeetha	1	Patil, P., Sangeetha, M. & Bhaskar, V., "Blockchain for IoT Access Control, Security and Privacy: A Review" Wireless Personal Communication, Nov. 2020.	https://doi.org/10.1007/s11277-020-07947-2
Dr. S. Dhanalakshmi	3	S.Latha, S.Dhanalakshmi, “Fully Automated Integrated Segmentation of Carotid Artery Ultrasound Images using DBSCAN and Affinity Propagation”, Journal of Medical and Biological Engineering, SCIE IF 1.173.	https://doi.org/10.1007/s40846-020-00586-9
		Nandini P, Chakravartula V, Samiappan D, Kumar R, "Assembly of fibre bragg grating with optical tweezers for continuous detection and trapping of micro-particles", Optik, 1, 228, Article ID:166215, Feb 2021	https://doi.org/10.1016/j.ijleo.2020.166215

		Chakravartula V, Samiappan D, Kumar R, Manjari AP, "Implementation of quantum teleportation of photons across an air–water interface", Optical and Quantum Electronics, 52, 7, July 2020	https://doi.org/10.1007/s11082-020-02449-8
Dr. P. Malarvezhi	1	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. S. Krithiga	1	S.Krithiga, Vidhyacharan Bhaskar, S. Malarvizhi, "Investigation on multi-user scheduling algorithms over non-identical channel distribution and LTE networks", Wireless Personal Communications, vol. 116, no.3 pp.2111-2133, Feb.2021	https://doi.org/10.1007/s11277-020-07782-5
Dr. Sandeep Kumar P	1	Saffrine K, Malathi K, M. Gulam Alsath, Sandeep Kumar P, T. Rama Rao, K. Indhumathi, Sangeetha S & Yogeshwari P S; “Compact Frequency and Bandwidth Reconfigurable Microwave Filter”; Wireless Personal Communications, Vol. 115, pages1755–1768, July 2020. (SCI IF:1.061)	https://doi.org/10.1007/s11277-020-07652-0
Dr. Kanaparthi V Phani Kumar	1	Phani Kumar K, Ayan Arora, Abhishek M, Sarika Sarika, Manoswita Bhattacharjee, Chittaranjan Nayak and T Rama Rao; “Implementation of a compact dual-band bandpass filter using signal interference technique on paper substrate”; AEU International Journal of Electronics and Communications, Vol.123, Aug 2020 (SCI IF: 2.924)	https://doi.org/10.1016/j.aeue.2020.153262
Dr. Rajesh Agarwal	1	R. Agarwal, “Electrical & Physical Characterization of Silicon-Organic Asymmetrical Metal Insulator Semiconductor Capacitive Test Structure”, Silicon, pp. 1-13, Jan 2021	https://doi.org/10.1007/s12633-020-00939-8

Dr. Kajesn Agarwal	1	R. Agarwal, "Comparison of Floating Probe Transient Technique for On-State Channel Characterization & Threshold Voltage of an Organic Thin Film Transistor for Sensing Applications", Solid State Electronics, vol. 173, pp. 107904, Oct 2020	https://doi.org/10.1016/j.sse.2020.107904
Dr. Chittaranjan Nayak	1	Chittaranjan Nayak, Alireza Aghajamali, Mehdi Solaimani, Jayanta K Rakshit, Damodar Panigrahy, Kanaparthi VP Kumar, Bandaru Ramakrishna "Dodecanacci superconductor-metamaterial photonic quasicrystal", Optik, Elsevier, november, 2020	https://doi.org/10.1016/j.ijleo.2020.165290
Mr. K. Ramesh	1	Ramesh Krishnamoorthy, Kalimuthu Krishnan, Bharatiraja Chokkalingam, Sanjeevikumar Padmanaban, Zbigniew Leonowicz, Jens Bo Holm-Nielsen, Massimo Mitolo, "Systematic Approach for State-of-the-Art Architectures and System-on-Chip Selection for Heterogeneous IoT Applications," in IEEE Access, vol. 9, pp. 25594-25622, 2021, February 2021.	https://doi.org/10.1109/ACCESS.2021.3055650
Mr. S. Bashyam	2	S. Bashyam and B. Ramachandran. and Sandeep Kumar Palaniswamy, "Reduced specific absorption rate compact flexible monopoleantenna system for smart wearable wireless communications", Engineering Science and Technology, an International Journal, January-2021,	https://doi.org/10.1016/j.jestch.2020.12.012
		S. Bashyam and B. Ramachandran. "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 , February-2020.	https://doi.org/10.1007/s11036-020-01511-9
Mr. S. Praveen Kumar	1	S.Praveenkumar, T.Jaya, K.Vijayan and S.Yuvaraj ,” Simulation of quantum key distribution in a secure star topology optimization in quantum channel” Microprocessors and Microsystems 82 (January 2021),Elsevier.(Impact factor 1.161)	https://doi.org/10.1016/j.micpro.2020.103820

Mr. B. Ananda Venkatesan	1	Boologam, Ananda Venkatesan, Kalimuthu Krishnan, Sandeep Kumar Palaniswamy, C. T. Manimegalai, and Sabitha Gauni, "On the Design and Analysis of Compact Super-Wideband Quad Element Chiral MIMO Array for High Data Rate Applications.", Electronics 9, no. 12 January 2021, pp 1995	https://doi.org/10.3390/electronics9121995
Mr.R.Prithiviraj	1	Prithiviraj.R, Selvkumar.J, Soumyaranjan routray,"Design and analysis of radiation-tolerant high frequency voltage controlled oscillator for PLL applications" AEU - International Journal of Electronics and Communications Volume 131, March 2021, 153543	https://doi.org/10.1016/j.aeue.2020.153543
Mrs. S. Latha	1	S.Latha, S.Dhanalakshmi, “Fully Automated Integrated Segmentation of Carotid Artery Ultrasound Images using DBSCAN and Affinity Propagation”, Journal of Medical and Biological Engineering, SCIE IF 1.173.	https://doi.org/10.1007/s40846-020-00586-9
Ms. S. Suhasini	1	Suhasini Sathiyamoorthy, R. Kumar, Bernaurdshaw Neppolian, Dhanalakshmi Samiappan, Surya Pratap Singh, Sumedha Roy, Nikhil Dwivedi & Pandiyarasan Veluswamy, "Comprehensive Study and Realizing an Enhanced Efficiency of the Thermoelectric Generator Along with Its Thermomechanical Properties", Journal of Electronic Materials,	https://doi.org/10.1007/s11664-020-08662-1
Dr. T. Deepa	2	Mathur, H., Deepa, T. “A Survey on Advanced Multiple Access Techniques for 5G and Beyond Wireless Communications”. Wireless Pers Commun (2021).	https://doi.org/10.1007/s11277-021-08115-w
		Deepa, T., Bharathiraja, N. “Performance Evaluation of Polar Coded Filtered OFDM for Low Latency Wireless Communications”. Wireless Pers Commun 116, 2023–2034 (2021).	https://doi.org/10.1007/s11277-020-07777-2

Dr. K. Vijayan	2	K.Vijayan, G.Ramprabu, S.Selvakumara Samy and M.Rajeswari,"Cascading model in underwater wireless sensors using routing policy for state transitions" Microprocessors and Microsystems 79 (October 2020),Elsevier.(Impact factor 1.161)	https://doi.org/10.1016/j.micpro.2020.103298
		K.sakthidasan Sankaran, K.Vijayan, S.yuvaraj, J.K.Periasamy, M. Balasaraswathi, Jay Prakash Narayan Verma and Chandra Shakher Tyagi," Weighted-based path rediscovery routing algorithm for improving the routing decision in wireless sensor network" Journal of Ambient Intelligence and Humanized Computing , January 2021.Springer Nature. (Impact factor 4.594)	https://doi.org/10.1007/s12652-020-02709-1