



## Electronics & Communication Engineering Department

### Papers published by faculty in Scopus Indexed Journals 2016 - 21

Sl. No	Authors	Title of the Research Paper	Journal	Year	Link	SCI ranking
1.	Dr. Poornima G R	A Modified XGBoost Classifier Model for Detection of Seizures and Non-Seizures	Turkish Journal of Electrical Engineering and Computer Science	2021	<a href="#">A Modified XGBoost Classifier Model for Detection of Seizures and Non-Seizures   Zenodo</a>	H-30 Q3 0.23 Science Citation Index Expanded Web of Science
2.	Dr. Rajendra Prasad P Dr. Shivashankar	Enhanced Energy Efficient Secure Routing Protocol for Mobile Ad-Hoc Network	Global Transitions Proceedings	2021	<a href="https://www.sciencedirect.com/science/article/pii/S2666285X2100100X">https://www.sciencedirect.com/science/article/pii/S2666285X2100100X</a>	WOS
3.	Dr. Sunil Kumar K N Dr. Shivashankar Dr. Keshavamurthy	Compression of PPG Signal Through Joint Technique of Auto Encoder and Feature Selection	International Journal of Healthcare Information Systems and Informatics	2021	<a href="#">Compression of PPG Signal Through Joint Technique of Auto-Encoder and Feature Selection: Medicine &amp; Healthcare Journal Article   IGI Global (igi-global.com)</a>	H13 Q3 0.27 SCOPUS & WOS
4.	Dr. Ravi Gatti	Effects of bidirectional	Inderscience -	2021	<a href="#">Effects of bidirectional</a>	H17

	Dr. Shivashankar Dr. Keshavamurthy	resource allocation schemes for advanced long-term evolution system in heterogeneous networks	International Journal of Communication Networks and Distributed Systems		<a href="https://www.inderscienceonline.com/doi/abs/10.1108/IJCNDS-05-2021-0011">resource allocation schemes for advanced long-term evolution system in heterogeneous networks   International Journal of Communication Networks and Distributed Systems (inderscienceonline.com)</a>	Q3 0.21 SCOPUS
5.	Prof Arjun Kumar G B Dr. Shivashankar Dr. Keshavamurthy	Design and control of autonomous hybrid wind solar system with DFIG supplying three-phase four-wire loads	Science Direct, Ain Shams Engineering Journal	2021	<a href="https://www.sciencedirect.com/science/article/pii/S1110016821000111">Design and control of autonomous hybrid wind solar system with DFIG supplying three-phase four-wire loads - ScienceDirect</a>	H-52 Q2 0.51 E. SCI
6.	Prof Arjun Kumar G B Dr. Shivashankar Dr. Keshavamurthy	Design and control of grid-connected solar-wind integrated conversion system with DFIG supplying three-phase four-wire loads	International Journal of Power Electronics and Drive System (IJPEDS)	2021	<a href="https://www.iaescore.com/doi/abs/10.1108/IJPE-05-2021-0011">Design and control of grid-connected solar-wind integrated conversion system with DFIG supplying three-phase four-wire loads   Kumar GB   International Journal of Power Electronics and Drive Systems (IJPEDS) (iaescore.com)</a>	H- 21 Q2 0.32 SCOPUS
7.	Prof Arjun Kumar G B Dr. Shivashankar	Optimal power point tracking of solar and wind energy in a hybrid wind solar energy system	Springer, International Journal of Energy and Environmental Engineering	2021	<a href="https://www.springerlink.com/doi/abs/10.1007/s12046-021-01111-1">Optimal power point tracking of solar and wind energy in a hybrid wind solar energy system   SpringerLink</a>	H-30 Q2 0.56 SCOPUS
8.	Prof. Mahaveer Penna Dr. Jijesh J J Dr. Shivashankar Dr. Keshavamurthy	Zenneck surface wave interconnect with encircle routing for effective inter chip communication	Wiley Publication, International Journal of RF & Microwave Computer Aided Engineering	2021	<a href="https://onlinelibrary.wiley.com/doi/abs/10.1002/rfm.1411">Zenneck surface wave interconnect with encircle routing for effective inter chip communication - Penna</a>	H 39 Q2 0.34 SCOPUS

					<a href="#">- - International Journal of RF and Microwave Computer-Aided Engineering - Wiley Online Library</a>	
9.	Prof. Sunil Kumar K. N Dr. Shivashankar Dr. Keshavamurthy	Bio-signals compression using auto-encoder	International Journal of Electrical and Computer Engineering (IJECE)	2021	<a href="#">Bio-signals compression using auto-encoder   N.   International Journal of Electrical and Computer Engineering (IJECE) (iaescore.com)</a>	H -22 Q2 0.28 SCOPUS (Elsevier), SCImago Journal Rank (SJR)
10.	Dr. Jijesh J J Dr. Shivashankar Dr. Keshavamurthy	A Supervised Learning Based Decision Support System for Multi-Sensor Healthcare Data from Wireless Body Sensor Networks	Wireless Personal Communications, Springer Nature 2020	2021	<a href="#">A Supervised Learning Based Decision Support System for Multi-Sensor Healthcare Data from Wireless Body Sensor Networks   SpringerLink</a>	H-60 Q-3 0.3 SCImago & SCOPUS
11.	Dr. Dileep Reddy Bolla Dr. Jijesh J J Dr. Shivashankar Prof. Mahaveer penna	An Energy Efficient Spectrum Aware Routing for Cognitive Radio Network(CRNs)	Bentham Science, International Journal of Sensors, Wireless Communications and Control	2021	<a href="#">An Energy Efficient Spectrum Aware Routing for Cognitive Radio Networks (CRNs)   Bentham Science (eurekaselect.com)</a>	H-6 Q4 0.14 Scopus
12.	Prof. Satyasrikanth Palle Dr. Shivashankar	Mobility Prediction Assisted Call Admission Control Model for Mobile Heterogeneous Cellular Network	Inder Science, International Journal of Communication Networks and Distributed Systems	2021	<a href="https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijcndss">https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijcndss</a>	H-17 Q3 0.21 Scopus
13.	Dr. Rajendra Prasad P Dr. Shivashankar	Securing Energy Routing Protocol Against Black Hole Attacks in Mobile Ad-Hoc Network	Bentham Science, Recent Advances in Computer Science and	2020	<a href="#">Securing Energy Routing Protocol Against Black Hole Attacks in Mobile Ad-Hoc Network   Bentham Science</a>	H-12 Q4 0.14

			Communications, 2020		<a href="http://eurekaselect.com">eurekaselect.com</a>	Scopus
14.	Dr. Satyasrikanth Palle Dr. Shivashankar	QoS Aware Multi-Path Routing using Link Scheduling Algorithm	Bentham Science, International Journal of Sensors, Wireless Communications and Control	2020	<a href="http://eurekaselect.com">QoS Aware Multi-Path Routing using Link Scheduling Algorithm   Bentham Science (eurekaselect.com)</a>	H-6 Q4 0.14 Scopus
15.	Prof. Rajendra Prasad P Dr. Shivashankar	Efficient Performance Analysis of Energy Aware on Demand Routing Protocol in Mobile Ad-Hoc Network	Wiley Publication, Engineering Reports. 2020	2020	<a href="http://wileyonlinelibrary.com">Efficient Performance Analysis of Energy Aware on Demand Routing Protocol in Mobile Ad-Hoc Network - Prasad P - 2020 - Engineering Reports - Wiley Online Library</a>	WOS
16.	Prof. Ravi Gatti Dr. Shivashankar	Improved resource allocation scheme for optimizing the performance of cell-edge users in LTE-A system	Springer, Journal of Ambient Intelligence and Humanized Computing (2020)	2020	<a href="http://springerlink.com">Improved resource allocation scheme for optimizing the performance of cell-edge users in LTE-A system   SpringerLink</a>	H-41 Q1 0.59 SCOPUS  Science Citation Index Expanded (SCIE)
17.	Prof. Rajendra Prasad P Dr. Shivashankar	Energy Secured Intrusion Detection System and Analysis of Attacks for Mobile Ad-Hoc Networks	Wiley Publication Journal of Communications Vol. 15, No. 5, May 2020	2020	<a href="http://jocm.us">Energy Secured Intrusion Detection System and Analysis of Attacks for Mobile Ad-Hoc Networks - Volume 15, No. 5, May 2020 - Journal of Communications (jocm.us)</a>	WOS

18.	Prof. Ravi Gatti Dr. Shivashankar	Bidirectional resource scheduling algorithm for advanced long term evolution system	Wiley Publication, Engineering Report, Volume 06, Issue-2, DOI: 10.1002/eng2.12192, 2020.	2020	<a href="#">Bidirectional resource scheduling algorithm for advanced long term evolution system - Gatti - 2020 - Engineering Reports - Wiley Online Library</a>	WOS
19.	Dr. Dileep Reddy Bolla Dr. Shivashankar	A Robust QSCTA-EDR Routing Protocol for Cognitive Radio Sensor Networks	InderScience, International Journal of Communication Networks and Distributed Systems	2020	<a href="#">A robust QSCTA-EDRA routing protocol for cognitive radio sensor networks: International Journal of Communication Networks and Distributed Systems: Vol 25, No 4 (inderscienceonline.com)</a>	H-17 Q3 0.21 Scopus
20.	Prof. Ravi Gatti Dr. Shivashankar	Extension of Modified Joint Uplink and Downlink Scheduling algorithm for LTE-A in Femtocell Networks	International Journal of Sensors, Wireless Communications and Control,	2020	<a href="https://www.eurekaselect.com/176993/article">https://www.eurekaselect.com/176993/article</a>	H-6 Q4 0.14 Scopus
21.	Prof. Sunil Kumar K N Dr. Shivashankar	Improving the AODV route recovery mechanism using PSO in WSN	International Journal of Sensors, Wireless Communications and Control	2020	<a href="https://www.eurekaselect.com/node/176992/article/improving-the-aodv-route-recovery-mechanism-using-psy-in-wsn">https://www.eurekaselect.com/node/176992/article/improving-the-aodv-route-recovery-mechanism-using-psy-in-wsn</a>	H-6 Q4 0.14 Scopus
22.	Prof Arjun Kumar G B Dr. Shivashankar	Efficient Solar Integrated Doubly Fed Induction Generator for Wind Energy	Recent Advances in Electrical & Electronic Engineering (Formerly Recent Patents on Electrical & Electronic	2020	<a href="https://www.eurekaselect.com/node/175875/article/efficient-solar-integrated-doubly-">https://www.eurekaselect.com/node/175875/article/efficient-solar-integrated-doubly-</a>	H-6 Q4 0.14

		Harnessing	Engineering), Bentham Science Publishers		<a href="#">fed-induction-generator-for-wind-energy-harnessing#:~:text=MATLAB%2FSimulink%20environmen t.-,Conclusion%3A%20Solar%20and%20wind%20energy%20sources%20incorporate%20Maximum%20Power%20Point, power%20consumption%20from%20the%20grid.</a>	Scopus
23.	Prof. Satyasrikanth Palle Dr. Shivashankar	QoS Aware MIMO Based CAC Approach for Wireless Mobile Networks	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	2019	<a href="https://www.ijitee.org/wp-content/uploads/papers/v8i8/H7432068819.pdf">https://www.ijitee.org/wp-content/uploads/papers/v8i8/H7432068819.pdf</a>	H-40 Scopus
24.	Prof. Satyasrikanth Palle Dr. Shivashankar	Delay Analysis of Wireless Cellular Networks for Better Qos	International Journal of Engineering and Advanced Technology (IJEAT)	2019	<a href="https://www.ijeat.org/wp-content/uploads/papers/v9i2/B4577129219.pdf">https://www.ijeat.org/wp-content/uploads/papers/v9i2/B4577129219.pdf</a>	H-18 Scopus
25.	Prof. Dileep Reddy Bolla Dr. Shivashankar	Energy Efficient Protocol for Multi Hop Routing In Cognitive Radio Networks	International Journal of Recent Technology and Engineering (IJRTE)	2019	<a href="https://www.ijrte.org/wp-content/uploads/papers/v7i6/F2844037619.pdf">https://www.ijrte.org/wp-content/uploads/papers/v7i6/F2844037619.pdf</a>	H-20 Scopus
26.	Prof. Rajendra Prasad P Dr. Shivashankar	Improvement of Battery Lifetime of Mobility Devices using Efficient Routing Algorithm	Asian Journal of Engineering Technology and Applications,	2019	<a href="http://www.i-scholar.in/index.php/ajeta/article/view/158648">http://www.i-scholar.in/index.php/ajeta/article/view/158648</a>	WOS
27.	Prof. Rajendra Prasad P	Secured Intrusion Detection System Energy Routing	International Journal of Engineering and Advanced	2019	<a href="https://www.ijeat.org/wp-content/uploads/papers/v9i1">https://www.ijeat.org/wp-content/uploads/papers/v9i1</a>	H-18 Scopus

	Dr. Shivashankar	Protocol for Mobile Ad-Hoc Network	Technology (IJEAT)		<a href="https://doi.org/10.5373/jardcs/v12sp1/20201107">s6/A10071291S619.pdf</a>	
28.	Prof. Sunil Kumar K N Dr. Shivashankar	Security Framework for Physiological Signals Using Auto Encoder	Jour of Adv Research in Dynamical & Control Systems,	2019	<a href="https://doi.org/10.5373/jardcs/v12sp1/20201107">https://doi.org/10.5373/jardcs/v12sp1/20201107</a>	H-20 Scopus
29.	Prof Arjun Kumar G B Dr. Shivashankar	Simulation Research on Integrated Hybrid PV- Wind Driven Generator Supplying AC/DC Micro-grid	International Journal of Engineering and Technology	2019	<a href="http://www.enggjournals.com/ijet/abstract.html?file=19-11-04-039">http://www.enggjournals.com/ijet/abstract.html?file=19-11-04-039</a>	H-25 Scopus
30.	Prof. Santosh Kumar, Prof. Avinash J L Prof. Nataraj N	Improving the performance of automatic speech recognition using blind source separation	International journal of Engineering and Advanced Technology	2019	<a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85072051235&amp;origin=inward&amp;txGid=a90082ce78fd80bd44480eb1d934c6fa">https://www.scopus.com/record/display.uri?eid=2-s2.0-85072051235&amp;origin=inward&amp;txGid=a90082ce78fd80bd44480eb1d934c6fa</a>	H-18 Scopus
31.	Prof. Ramprasad S S Prof. Avinash J L	Protecting the client data using encryption algorithm in cloud computing environment	Journal of Advanced Research in Dynamical and Control Systems,	2019	<a href="https://www.scopus.com/record/display.uri?eid=2-s2.0-85074131114&amp;origin=inward&amp;txGid=e71209ca8eccb5db576e23a25e19093e">https://www.scopus.com/record/display.uri?eid=2-s2.0-85074131114&amp;origin=inward&amp;txGid=e71209ca8eccb5db576e23a25e19093e</a>	H-21 Scopus
32.	Prof. Swapna C H	Novel Pseudonym Generation for secured privacy in vehicular Adhoc Networks”	International Journal of Recent Technology and Engineering (IJRTE)	2019	<a href="https://www.ijrte.org/wp-content/uploads/papers/v8i4s5/D10571284S519.pdf">https://www.ijrte.org/wp-content/uploads/papers/v8i4s5/D10571284S519.pdf</a>	H-20 Scopus
33.	Prof. Sridhar N K	An Intimation System for Villages surrounded by the Forest	International Journal of Recent Technology and Engineering (IJRTE)	2019	<a href="https://www.ijrte.org/wp-content/uploads/papers/v8i2S4/B11350782S419.pdf">https://www.ijrte.org/wp-content/uploads/papers/v8i2S4/B11350782S419.pdf</a>	H-20 Scopus

34.	Prof. Sridhar N K	Time frame based Dynamic Data Shift Algorithm for Data security in Mobile Cloud Computing	International Journal of Recent Technology and Engineering (IJRTE)	2019	<a href="https://www.ijrte.org/wp-content/uploads/papers/v8i2S4/B11360782S419.pdf">https://www.ijrte.org/wp-content/uploads/papers/v8i2S4/B11360782S419.pdf</a>	H-20 Scopus
35.	Prof. Avinash J L	An Innovative Idea in Farming for Monitoring Health of Farmers	Journal of Advanced Research in Dynamical and Control Systems	2018	<a href="http://www.jardcs.org">An Innovative Idea in Farming for Monitoring Health of Farmers (jardcs.org)</a>	H-21 Scopus
36.	Prof. Pramod M S Dr. Shivashankar	Performance of EEDR Routing Protocol under Various Path Loss Models for WSNs	International Journal of Engineering & Technology	2018	<a href="https://www.sciencepubco.com/index.php/ijet/article/view/24129">https://www.sciencepubco.com/index.php/ijet/article/view/24129</a>	H-26 Scopus
37.	Prof. Pramod M S Dr. Shivashankar	Simulation and Analysis of Packet Delivery in EEDR Routing	International Journal Of Engineering Sciences & Research Technology	2018	<a href="http://paper.researchbib.com/view/paper/182584">http://paper.researchbib.com/view/paper/182584</a>	
38.	Prof. Pramod M S Dr. Shivashankar	Design and Validation of EEDR Routing Protocol Performance in Wireless Sensor Networks	International Journal Of Engineering Sciences & Research Technology	2018	<a href="http://www.ijesrt.com/issues%20pdf%20file/Archive-2018/September-2018/26.pdf">http://www.ijesrt.com/issues%20pdf%20file/Archive-2018/September-2018/26.pdf</a>	
39.	Prof. Aadya Pant Prof. Swapna C H	A compact slot antenna with improved bandwidth and gain for wireless applications	International Journal of Engineering & Technology.	2018	<a href="https://www.sciencepubco.com/index.php/ijet/article/view/18317">https://www.sciencepubco.com/index.php/ijet/article/view/18317</a>	H-26 Scopus
40.	Prof. Aadya Pant Prof. Swapna C H	Application Based Local and Outdoor navigation System for Visually Impaired People	International Journal of Pure and Applied Mathematics.	2018	<a href="https://acadpubl.eu/hub/2018-120-6/9/817.pdf">https://acadpubl.eu/hub/2018-120-6/9/817.pdf</a>	H-24 Scopus



41.	Prof. G.R. Poornima	Efficient H.264 Decoder Architecture Using External Memory and Pipelining	Indonesian Journal of Electrical Engineering and Computer Science	2018	<a href="http://ijeecs.iaescore.com/index.php/IJECS/article/view/12652/9895">http://ijeecs.iaescore.com/index.php/IJECS/article/view/12652/9895</a>	H-17 Q3 0.24 Scopus
42.	Prof. J. J. Jijesh Dr. Shivashankar Prof. Mahaveer Penna Prof. Satyasrikanth Palle	Centralized Framework for the Elegant Hospital Mechanization	International Journal of Engineering & Technology	2018	<a href="https://www.sciencepubco.com/index.php/ijet/article/view/10675">https://www.sciencepubco.com/index.php/ijet/article/view/10675</a>	H-26 Scopus
43.	Prof. Mahveer Penna Prof. Satya Srikanth Palle Prof. Dileep Reddy Bolla	User Customized Boot-loader For PIC Microcontroller Carrying Out	Far East Journal of Electronics and Communication	2017	<a href="https://www.semanticscholar.org/paper/USER-CUSTOMIZED-BOOTLOADER-FOR-PIC-MICROCONTROLLER-Penna-Palle/670e9ce7bc50531488ec655d327b891465513c2b">https://www.semanticscholar.org/paper/USER-CUSTOMIZED-BOOTLOADER-FOR-PIC-MICROCONTROLLER-Penna-Palle/670e9ce7bc50531488ec655d327b891465513c2b</a>	H-12 Scopus
44.	Prof. K L Arun Kumar	Conservative Spatial Reuse Routing in Multi-Hop Cognitive Sensor Networks	International Journal of Applied Engineering Research	2017	<a href="https://www.ripublication.com/ijaer17/ijaerv12n13_36.pdf">https://www.ripublication.com/ijaer17/ijaerv12n13_36.pdf</a>	H-40 Scopus
45.	Prof. Suraj S, Prof. Jijesh J J, Prof. Sridhar N K,	Analysis of Dual Phase Dual Stage Boost Converter for Photovoltaic Applications	International Journal on Advanced Science, Engineering and Information Technology	2017	<a href="https://www.researchgate.net/profile/Jijesh_J/publication/342586095_Analysis_of_Dual_Phase_Dual_Stage_Boost_Converter_for_Photovoltaic_Applications/links/5f037f3f92851c52d61a0d46/Analysis-of-Dual-Phase-Dual-Stage-Boost-Converter-for-">https://www.researchgate.net/profile/Jijesh_J/publication/342586095_Analysis_of_Dual_Phase_Dual_Stage_Boost_Converter_for_Photovoltaic_Applications/links/5f037f3f92851c52d61a0d46/Analysis-of-Dual-Phase-Dual-Stage-Boost-Converter-for-</a>	H-22 Q3 0.22 Scopus

					<a href="#">Photovoltaic-Applications.pdf</a>	
46.	Prof. K L Arun Kumar	Divergent Multipath Routing in Cognitive Wireless Sensor Networks	International Journal of Advance Engineering and Research Development	2017	<a href="http://www.ijaerd.com/papers/finished_papers/Divergent_Multipath_Routing_in_Cognitive_Wireless_Sensor_Networks-IJAERDV05I0324674.pdf">http://www.ijaerd.com/papers/finished_papers/Divergent_Multipath_Routing_in_Cognitive_Wireless_Sensor_Networks-IJAERDV05I0324674.pdf</a>	
47.	Prof. Jijesh J.J, Dr. Shivashankar	Issues and Performance Analysis on Energy Conservation in WBSN System: An Overview	Journal of Advanced Research in Dynamical and Control Systems	2017	<a href="https://www.jardcs.org/backissues/abstract.php?archiveid=1096">https://www.jardcs.org/backissues/abstract.php?archiveid=1096</a>	H-21 Scopus
48.	Dr. Shivashankar Prof. Rajendra Prasad P	Improvement of Battery Lifetime of Mobility Devices using Efficient Routing Algorithm	Asian Journal of Engineering Technology and Applications, IET Networks	2016	<a href="http://www.informaticsjournals.com/index.php/ajeta/article/view/8527">http://www.informaticsjournals.com/index.php/ajeta/article/view/8527</a>	
49.	Dr. Shivashankar Prof. Dileep Reddy Bolla, Prof. Jijesh J J Prof. Pramod M S	Real-Time Data Fusion Applications in Embedded Sensor Network using TATAS	Indian Journal of Science & Technology	2016	<a href="https://indjst.org/articles/real-time-data-fusion-applications-in-embedded-sensor-network-using-tatas">https://indjst.org/articles/real-time-data-fusion-applications-in-embedded-sensor-network-using-tatas</a>	
50.	Prof. Mahaveer Penna, Prof. Satya Srikanth Palle Prof. Dankan V Gowda,	Digital intercommunication system in advanced light helicopter(ALH)	International Journal of Advances in Computational Sciences and Technology at Research India Publications ICI indexed,	2016	<a href="https://www.ripublication.com/acst17/acstv10n5_04.pdf">https://www.ripublication.com/acst17/acstv10n5_04.pdf</a>	
51.	Prof. Poornima G R	4x4 luminance intra prediction modes for H.264/AVC	International journal of electronics & communicational System- IJEECS	2016	<a href="#">International Journal of Electronics, Electrical and Computational System IJEECS, ISSN 2348-117X,</a>	

					<a href="#">Volume 6, Issue 7 July 2017</a>	
52.	Prof. Dileep Reddy Bolla, Prof. Anand Vijay Kamal, Prof. Jijesh J J Prof. Pramod M S, Prof. Mahaveer Penna, Prof. Sathyasrikanth Palle	An Energy Efficient Sophisticated Security System for Surveillance using Microcontroller.	International Journal of Emerging Research in Management & Technology  ICI	2016	<a href="https://manualzz.com/doc/34106073/an-energy-efficient-sophisticated-security-system-for-sur...">https://manualzz.com/doc/34106073/an-energy-efficient-sophisticated-security-system-for-sur...</a>	
53.	Prof. Mohan kumar B S Prof. Anand Vijay KM Prof. Suhas N S Prof. S Devi	High fidelity low-noise and low-power amplifiers (HIFI-LNLPA) for different receivers: A Review	IJESM Journal. International Journal of Engineering Sciences & Management	2016	<a href="http://www.ijesmjournal.com/issues%20PDF%20file/Archive-2017/April-June-2017/1.pdf">http://www.ijesmjournal.com/issues%20PDF%20file/Archive-2017/April-June-2017/1.pdf</a>	
54.	Prof. Dankan V Gowda	Slip ratio control of antilog breaking system with bang-bang controller.	International journal of computer techniques.	2016	<a href="http://oaji.net/articles/2017/1948-1514029908.pdf">http://oaji.net/articles/2017/1948-1514029908.pdf</a>	
55.	Prof. Jijesh J.J, Dr. Shivashankar	Energy Efficient Routing Protocol Based on DSR	International Journal of Ad hoc, Sensor & Ubiquitous Computing (IJASUC) ( Scopus Indexed)	2016	<a href="https://airconline.com/ijasuc/V7N5/7516ijasuc01.pdf">https://airconline.com/ijasuc/V7N5/7516ijasuc01.pdf</a>	
56.	Dr. Shivashankar Prof. Pramod M.S	Performance Analysis of EEDR Routing Protocol for Wireless Sensor Networks	IET Wireless Sensor Systems ( Scopus Indexed)	2016	<a href="https://digital-library.theiet.org/content/journals/10.1049/iet-wss.2016.0029">https://digital-library.theiet.org/content/journals/10.1049/iet-wss.2016.0029</a>	
57.	Prof. Satya srikanth Palle Prof. Anand Vijay K Prof. Vijayashekar SS	Performance analysis of an Efficient pulse triggered Flip-Flops for Ultra low power Applications	International Journal of Computer Science & Mobile Computing	2016	<a href="https://www.ijcsmc.com/docs/papers/August2016/V5I8201639.pdf">https://www.ijcsmc.com/docs/papers/August2016/V5I8201639.pdf</a>	

58.	Dr. Vijayashree R B	Automatic Theft Detector & locker Device for Automatic Teller Machine	Journal of Electrical & Electronics Engineering	2016	<a href="https://www.ijrdo.org/index.php/eee/article/view/257">https://www.ijrdo.org/index.php/eee/article/view/257</a>	
59.	Prof. Sathyasrikanth Palle, Prof. Dileep Reddy Bolla, Prof. Mahaveer Penna	Automatic Toll Collection System Using RFID	International Journal of computer Science & Mobile computing	2016	<a href="https://www.ijcsmc.com/docs/papers/August2016/V5I8201645.pdf">https://www.ijcsmc.com/docs/papers/August2016/V5I8201645.pdf</a>	
60.	Prof. Dankan V Gowda	Two Wheeler Vehicle Model Development for Driving Simulator Application	GIT journal of Engineering & technology	2016	<a href="https://git.org.in/wp-content/uploads/2017/06/GIT%20JET%202016.pdf">https://git.org.in/wp-content/uploads/2017/06/GIT%20JET%202016.pdf</a>	
61.	Dr. Vijayashree B R	Optimization routing in ubiquitous sensor network using particle swarm optimization.	International Journal of Combined Research & Development, June 2016	2016	<a href="http://www.ijcrd.com/files/vol_5_issue_6/6627.pdf">http://www.ijcrd.com/files/vol_5_issue_6/6627.pdf</a>	
62.	Dr. Shilpa Mehta	A Multiple Level MIMO Fuzzy Logic Based Intelligence For Multiple Agent Cooperative Robot System	IPASJ International Journal of Information Technology (IIJIT)	2016	<a href="https://ipasj.org/IIJIT/Volume4Issue4/IIJIT-2016-04-05-1.pdf">https://ipasj.org/IIJIT/Volume4Issue4/IIJIT-2016-04-05-1.pdf</a>	
63.	Dr. Shivashankar Prof. Pramod M S	Channel quality-based receiver initiated routing protocol for WSNs	IET Journal of Wireless Sensor Systems (Scopus Indexed)	2015	<a href="https://digital-library.theiet.org/content/journals/10.1049/iet-wss.2016.0029">https://digital-library.theiet.org/content/journals/10.1049/iet-wss.2016.0029</a>	

  
**Programme Coordinator**  
 HEAD, DEPT. OF E & CE  
 SRI VENKATESHWARA  
 COLLEGE OF ENGINEERING  
 BANGALORE-562 157



## Electronics & Communication Engineering Department

### Papers published by faculty in Scopus Indexed Journals ACY 2019-20

Sl. No	Authors	Title of the Research Paper	Journal	Year	Link	SCI ranking
1.	Prof. Satyasrikanth Palle Dr. Shivashankar	QoS Aware MIMO Based CAC Approach for Wireless Mobile Networks	International Journal of Innovative Technology and Exploring Engineering (IJITEE)	-	<a href="https://www.ijitee.org/wp-content/uploads/papers/v8i8/H7432068819.pdf">https://www.ijitee.org/wp-content/uploads/papers/v8i8/H7432068819.pdf</a>	H-40 Scopus
2.	Prof. Satyasrikanth Palle Dr. Shivashankar	Delay Analysis of Wireless Cellular Networks for Better Qos	International Journal of Engineering and Advanced Technology (IJEAT)	10.35940/ijeat.B4577.129219	<a href="https://www.ijeat.org/wp-content/uploads/papers/v9i2/B4577129219.pdf">https://www.ijeat.org/wp-content/uploads/papers/v9i2/B4577129219.pdf</a>	H-18 Scopus
3.	Prof. Dileep Reddy Bolla Dr. Shivashankar	Energy Efficient Protocol for Multi Hop Routing in Cognitive Radio Networks	International Journal of Recent Technology and Engineering (IJRTE)	-	<a href="https://www.ijrte.org/wp-content/uploads/papers/v7i6/F2844037619.pdf">https://www.ijrte.org/wp-content/uploads/papers/v7i6/F2844037619.pdf</a>	H-20 Scopus

4.	Prof. Rajendra Prasad P Dr. Shivashankar	Improvement of Battery Lifetime of Mobility Devices using Efficient Routing Algorithm	Asian Journal of Engineering Technology and Applications,	10.18311/ajeta/2017/8527	<a href="http://www.i-scholar.in/index.php/ajeta/article/view/158648">http://www.i-scholar.in/index.php/ajeta/article/view/158648</a>	WOS
5.	Prof. Rajendra Prasad P Dr. Shivashankar	Secured Intrusion Detection System Energy Routing Protocol for Mobile Ad-Hoc Network	International Journal of Engineering and Advanced Technology (IJEAT)	10.35940/ijeat.A1007.1291S619	<a href="https://www.ijeat.org/wp-content/uploads/papers/v9i1s6/A10071291S619.pdf">https://www.ijeat.org/wp-content/uploads/papers/v9i1s6/A10071291S619.pdf</a>	H-18 Scopus
6.	Prof. Sunil Kumar K N Dr. Shivashankar	Security Framework for Physiological Signals Using Auto Encoder	Jour of Adv Research in Dynamical & Control Systems,	10.5373/JARDCS/V12SP1/20201107	<a href="https://doi.org/10.5373/jardcs/v12sp1/20201107">https://doi.org/10.5373/jardcs/v12sp1/20201107</a>	H-20 Scopus
7.	Prof Arjun Kumar G B Dr. Shivashankar	Simulation Research on Integrated Hybrid PV-Wind Driven Generator Supplying AC/DC Micro-grid	International Journal of Engineering and Technology	10.21817/ijet/2019/v11i4/191104039	<a href="http://www.enggjournals.com/ijet/abstract.html?file=19-11-04-039">http://www.enggjournals.com/ijet/abstract.html?file=19-11-04-039</a>	H-25 Scopus
8.	Prof. Santosh Kumar, Prof. Avinash J L Prof. Nataraj N	Improving the performance of automatic speech recognition using blind source separation	International journal of Engineering and Advanced Technology	-	<a href="#">F8112088619 - International Journal of Engineering and Advanced Technology (IJEAT)</a>	H-18 Scopus

9.	Prof. Ramprasad S S Prof. Avinash J L	Protecting the client data using encryption algorithm in cloud computing environment	Journal of Advanced Research in Dynamical and Control Systems,	-	<a href="http://www.jardcs.org">Protecting the Client Data Using Encryption Algorithm in Cloud Computing Environment (jardcs.org)</a>	H-21 Scopus
10.	Prof. Swapna C H	Novel Pseudonym Generation for secured privacy in vehicular Adhoc Networks”	International Journal of Recent Technology and Engineering (IJRTE)	10.35940/ijrte.D1057.1284S519	<a href="https://www.ijrte.org/wp-content/uploads/papers/v8i4s5/D10571284S519.pdf">https://www.ijrte.org/wp-content/uploads/papers/v8i4s5/D10571284S519.pdf</a>	H-20 Scopus
11.	Prof. Sridhar N K	An Intimation System for Villages surrounded by the Forest	International Journal of Recent Technology and Engineering (IJRTE)	10.35940/ijrte.B1135.0782S419	<a href="https://www.ijrte.org/wp-content/uploads/papers/v8i2S4/B11350782S419.pdf">https://www.ijrte.org/wp-content/uploads/papers/v8i2S4/B11350782S419.pdf</a>	H-20 Scopus
12.	Prof. Sridhar N K	Time frame based Dynamic Data Shift Algorithm for Data security in Mobile Cloud Computing	International Journal of Recent Technology and Engineering (IJRTE)	10.35940/ijrte.B1136.0782S419	<a href="https://www.ijrte.org/wp-content/uploads/papers/v8i2S4/B11360782S419.pdf">https://www.ijrte.org/wp-content/uploads/papers/v8i2S4/B11360782S419.pdf</a>	H-20 Scopus

  
**Programme Coordinator**  
 HEAD, DEPT. OF E & CE  
 SRI VENKATESHWARA  
 COLLEGE OF ENGINEERING  
 BANGALORE-562 157



## Electronics & Communication Engineering Department

### Papers published by faculty in Scopus Indexed Journals ACY 2020-21

Sl. No	Authors	Title of the Research Paper	Journal	DOI	Link	SCI ranking
1.	Dr. Rajendra Prasad P Dr. Shivashankar	Securing Energy Routing Protocol Against Black Hole Attacks in Mobile Ad-Hoc Network	Bentham Science, Recent Advances in Computer Science and Communications, 2020	10.2174/2666255813666200814171401	<a href="https://doi.org/10.2174/2666255813666200814171401">Securing Energy Routing Protocol Against Black Hole Attacks in Mobile Ad-Hoc Network   Bentham Science (eurekaselect.com)</a>	H-12 Q4 0.14 Scopus
2.	Dr. Satyasrikanth Palle Dr. Shivashankar	QoS Aware Multi-Path Routing using Link Scheduling Algorithm	Bentham Science, International Journal of Sensors, Wireless Communications and Control	10.2174/2210327909666191206103424	<a href="https://doi.org/10.2174/2210327909666191206103424">QoS Aware Multi-Path Routing using Link Scheduling Algorithm   Bentham Science (eurekaselect.com)</a>	H-6 Q4 0.14 Scopus
3.	Prof. Rajendra Prasad P Dr. Shivashankar	Efficient Performance Analysis of Energy Aware on Demand Routing Protocol in Mobile Ad-Hoc Network	Wiley Publication, Engineering Reports. 2020	https://doi.org/10.1002/eng2.12116	<a href="https://doi.org/10.1002/eng2.12116">Efficient Performance Analysis of Energy Aware on Demand Routing Protocol in Mobile Ad-Hoc Network - Prasad P - 2020 - Engineering Reports - Wiley Online</a>	WOS



					<a href="#">Library</a>	
4.	Prof. Ravi Gatti Dr. Shivashankar	Improved resource allocation scheme for optimizing the performance of cell-edge users in LTE-A system	Springer, Journal of Ambient Intelligence and Humanized Computing (2020)	10.1007/s12652-020-02084-x	<a href="#">Improved resource allocation scheme for optimizing the performance of cell-edge users in LTE-A system   SpringerLink</a>	H-41 Q1 0.59 SCOPUS  Science Citation Index Expanded (SCIE)
5.	Prof. Rajendra Prasad P Dr. Shivashankar	Energy Secured Intrusion Detection System and Analysis of Attacks for Mobile Ad-Hoc Networks	Wiley Publication Journal of Communications Vol. 15, No. 5, May 2020	10.12720/jcm	<a href="#">Energy Secured Intrusion Detection System and Analysis of Attacks for Mobile Ad-Hoc Networks - Volume 15, No. 5, May 2020 - Journal of Communications (jocm.us)</a>	WOS
6.	Prof. Ravi Gatti Dr. Shivashankar	Bidirectional resource scheduling algorithm for advanced long term evolution system	Wiley Publication, Engineering Report, Volume 06, Issue-2, DOI: 10.1002/eng2.12192, 2020.	<a href="https://doi.org/10.1002/eng2.12192">https://doi.org/10.1002/eng2.12192</a>	<a href="#">Bidirectional resource scheduling algorithm for advanced long term evolution system - Gatti - 2020 - Engineering Reports - Wiley Online Library</a>	WOS
7.	Dr. Dileep Reddy Bolla Dr. Shivashankar	A Robust QSCTA-EDR Routing Protocol for Cognitive Radio Sensor Networks	InderScience, International Journal of Communication Networks and Distributed Systems	10.1504/IJCN DS.2020.110523	<a href="#">A robust QSCTA-EDRA routing protocol for cognitive radio sensor networks: International Journal of Communication</a>	H-17 Q3 0.21 Scopus

					<a href="#">Networks and Distributed Systems: Vol 25, No 4 (inderscienceonline.com)</a>	
8.	Prof. Ravi Gatti Dr. Shivashankar	Extension of Modified Joint Uplink and Downlink Scheduling algorithm for LTE-A in Femtocell Networks	International Journal of Sensors, Wireless Communications and Control,	10.2174/22103 279096661911 26112740	<a href="https://www.eurekaselect.com/176993/article">https://www.eurekaselect.com/176993/article</a>	H-6 Q4 0.14 Scopus
9.	Prof. Sunil Kumar K N Dr. Shivashankar	Improving the AODV route recovery mechanism using PSO in WSN	International Journal of Sensors, Wireless Communications and Control	10.2174/22103 279096661911 26110201	<a href="https://www.eurekaselect.com/node/176992/article/improving-the-aodv-route-recovery-mechanism-using-psy-in-wsn">https://www.eurekaselect.com/node/176992/article/improving-the-aodv-route-recovery-mechanism-using-psy-in-wsn</a>	H-6 Q4 0.14 Scopus
10.	Prof Arjun Kumar G B Dr. Shivashankar	Efficient Solar Integrated Doubly Fed Induction Generator for Wind Energy Harnessing	Recent Advances in Electrical & Electronic Engineering (Formerly Recent Patents on Electrical & Electronic Engineering), Bentham Science Publishers	10.2174/23520 965126661910 19094707	<a href="#">Efficient Solar Integrated Doubly Fed Induction Generator for Wind Energy Harnessing   Bentham Science (eurekaselect.com)</a>	H-6 Q4 0.14 Scopus

  
**Programme Coordinator**  
 HEAD, DEPT. OF E & CE  
 SRI VENKATESHWARA  
 COLLEGE OF ENGINEERING  
 BANGALORE-562 157



## Electronics & Communication Engineering Department

### Papers published by faculty in Scopus Indexed Journals ACY 2021-22

Sl. No	Authors	Title of the Research Paper	Journal	DOI	Link	SCI ranking
1.	Dr. Rajendra Prasad P Dr. Shivashankar	Enhanced Energy Efficient Secure Routing Protocol for Mobile Ad-Hoc Network	Global Transitions Proceedings	<a href="https://doi.org/10.1016/j.gltip.2021.10.001">https://doi.org/10.1016/j.gltip.2021.10.001</a>	<a href="https://www.sciencedirect.com/science/article/pii/S2666285X2100100X">https://www.sciencedirect.com/science/article/pii/S2666285X2100100X</a>	WOS
2.	Prof. Mahaveer Penna Dr. Shivashankar Dr. Keshavamurthy Dr. Jijesh J J	Impact of surface reactance and skin depth for effective surface wave – based communication between the integrated circuits of printed circuit board	International Journal of Systems, Control and Communication	10.1504/IJSCC.2022.122274	<a href="https://www.inderscienceonline.com/doi/full/10.1504/IJSCC.2022.122274">Impact of surface reactance and skin depth for effective surface wave-based communication between the integrated circuits of printed circuit board   International Journal of Systems, Control and Communications (inderscienceonline.com)</a>	H-13 Q4 0.19 SCOPUS
3.	Dr. Poornima G R	A Modified XGBoost Classifier Model for Detection of Seizures and Non-Seizures	Turkish Journal of Electrical Engineering and Computer	10.37394/23208.2022.19.3	<a href="https://zenodo.org/record/6444444">A Modified XGBoost Classifier Model for Detection of Seizures and Non-Seizures   Zenodo</a>	H-30 Q3 0.23 Science Citation

			Science			Index Expanded Web of Science
4.	Dr. Sunil Kumar K N Dr. Shivashankar Dr. Keshavamurthy	Compression of PPG Signal Through Joint Technique of Auto Encoder and Feature Selection	International Journal of Healthcare Information Systems and Informatics	10.4018/IJHISI.20211 001.oa23	<a href="#">Compression of PPG Signal Through Joint Technique of Auto-Encoder and Feature Selection: Medicine &amp; Healthcare Journal Article   IGI Global (igi-global.com)</a>	H13 Q3 0.27 SCOPUS & WOS
5.	Prof. Swapna C H	A Novel Data Gathering Algorithm For Wireless Sensor Networks Using Artificial Intelligence	Springer, Wireless Personal Communications	<a href="https://doi.org/10.21203/rs.3.rs-463490/v1">https://doi.org/10.212 03/rs.3.rs-463490/v1</a>	<a href="#">A Novel Data Gathering Algorithm For Wireless Sensor Networks Using Artificial Intelligence   Research Square</a>	H -65 Q2 0.48 SCOPUS Science Citation Index Expanded (SCIE)
6.	Dr. Ravi Gatti Dr. Shivashankar Dr. Keshavamurthy	Effects of bidirectional resource allocation schemes for advanced long-term evolution system in heterogeneous networks	Inderscience  International Journal of Communication Networks and Distributed Systems	10.1504/IJCNDS.202 1.118130	<a href="#">Effects of bidirectional resource allocation schemes for advanced long-term evolution system in heterogeneous networks   International Journal of Communication Networks and Distributed Systems (inderscienceonline.com)</a>	H17 Q3 0.21 SCOPUS
7.	Prof Arjun Kumar G B Dr. Shivashankar	Design and control of autonomous hybrid wind	Science Direct, Ain Shams	<a href="https://doi.org/10.101">https://doi.org/10.101</a>	<a href="#">Design and control of autonomous hybrid wind solar</a>	H-52 Q2

	Dr. Keshavamurthy	solar system with DFIG supplying three-phase four-wire loads	Engineering Journal	6/j.asej.2020.11.027	<a href="#">system with DFIG supplying three-phase four-wire loads - ScienceDirect</a>	0.51 E. SCI
8.	Prof Arjun Kumar G B Dr. Shivashankar Dr. Keshavamurthy	Design and control of grid-connected solar-wind integrated conversion system with DFIG supplying three-phase four-wire loads	International Journal of Power Electronics and Drive System (IJPEDS)	<a href="http://doi.org/10.11591/ijpeds.v12.i2.pp1150-1161">http://doi.org/10.11591/ijpeds.v12.i2.pp1150-1161</a>	<a href="#">Design and control of grid-connected solar-wind integrated conversion system with DFIG supplying three-phase four-wire loads   Kumar GB   International Journal of Power Electronics and Drive Systems (IJPEDS) (iaescore.com)</a>	H- 21 Q2 0.32 SCOPUS
9.	Prof Arjun Kumar G B Dr. Shivashankar	Optimal power point tracking of solar and wind energy in a hybrid wind solar energy system	Springer, International Journal of Energy and Environmental Engineering	10.1007/s40095-021-00399-9	<a href="#">Optimal power point tracking of solar and wind energy in a hybrid wind solar energy system   SpringerLink</a>	H-30 Q2 0.56 SCOPUS
10.	Prof. Mahaveer Penna Dr. Jijesh J J Dr. Shivashankar Dr. Keshavamurthy	Zenneck surface wave interconnect with encircle routing for effective inter chip communication	Wiley Publication, International Journal of RF & Microwave Computer Added Engineering	<a href="https://doi.org/10.1002/mmce.22769">https://doi.org/10.1002/mmce.22769</a>	<a href="#">Zenneck surface wave interconnect with encircle routing for effective inter chip communication - Penna - - International Journal of RF and Microwave Computer-Aided Engineering - Wiley Online Library</a>	H 39 Q2 0.34 SCOPUS
11.	Prof. Sunil Kumar K. N Dr. Shivashankar Dr. Keshavamurthy	Bio-signals compression using auto-encoder	International Journal of Electrical and	10.11591/ijece.v11i11	<a href="#">Bio-signals compression using auto-encoder   N.   International Journal of</a>	H -22 Q2 0.28

			Computer Engineering (IJECE)		<a href="http://www.iaescore.com">Electrical and Computer Engineering (IJECE) (iaescore.com)</a>	SCOPUS (Elsevier), SCImago Journal Rank (SJR)
12.	Dr. Jijesh J J Dr. Shivashankar Dr. Keshavamurthy	A Supervised Learning Based Decision Support System for Multi-Sensor Healthcare Data from Wireless Body Sensor Networks	Wireless Personal Communications , Springer Nature 2020	10.1007/s11277-020-07762-9	<a href="https://doi.org/10.1007/s11277-020-07762-9">A Supervised Learning Based Decision Support System for Multi-Sensor Healthcare Data from Wireless Body Sensor Networks   SpringerLink</a>	H-60 Q-3 0.3 SCImago & SCOPUS
13.	Dr. Dileep Reddy Bolla Dr. Jijesh J J Dr. Shivashankar Prof. Mahaveer penna	An Energy Efficient Spectrum Aware Routing for Cognitive Radio Network(CRNs)	Bentham Science, International Journal of Sensors, Wireless Communications and Control	10.2174/221032791099201102193851	<a href="https://doi.org/10.2174/221032791099201102193851">An Energy Efficient Spectrum Aware Routing for Cognitive Radio Networks (CRNs)   Bentham Science (eurekaselect.com)</a>	H-6 Q4 0.14 Scopus
14.	Prof. Satyasrikanth Palle Dr. Shivashankar	Mobility Prediction Assisted Call Admission Control Model for Mobile Heterogeneous Cellular Network	Inder Science, International Journal of Communication Networks and Distributed Systems	10.1504/IJCND.2021.113001	<a href="https://www.inderscience.com/info/inarticle.php?artid=113001">https://www.inderscience.com/info/inarticle.php?artid=113001</a>	H-17 Q3 0.21 Scopus

  
**Programme Coordinator**  
 HEAD, DEPT. OF E & CE  
 SRI VENKATESHWARA  
 COLLEGE OF ENGINEERING  
 BANGALORE-562 157





**Consolidated List of Grants received from various Organization for  
Research / Conducting events - (Year-wise)**

Sl No.	Academic Year	Number of Grants	Approved Amount
1	2020-21	3	1,03,000/-
2	2019-20	7	39,13,764/-
3	2018-19	15	2,57,14,690/-
4	2017-18	8	6,44,000/-
5	2016-17	6	5,34,500/-
6	2015-16	1	40,000/-
<b>Total</b>			<b>3,09,49,954/-</b>

  
**Programme Coordinator**  
HEAD, DEPT. OF E & CE  
SRI VENKATESHWARA  
COLLEGE OF ENGINEERING  
BANGALORE-562 157





## Department of Electronics & Communication Engineering

### List of Grants received from various Organization for Research & event organization

#### ACY 2021-22

Sl No.	Funding Agency	Project Title	Approval Amount	Name of the PI & Co-PI	Duration	Ongoing/ Complete
1	KSCST	Detecting A twitter Cyberbullying using Machine Learning	6,000/-	Dr. Poornima	6 months	Ongoing
2	KSCST	Water Purification using solar energy and generation of Hydroelectricity	6,000/-	Dr. Jijesh J J	6 months	Ongoing
3	KSCST	Real time alert system for distribution transformer using IoT	6,000/-	Mr. Ravindra Kumar M	6 months	Ongoing
4	KSCST	Modular Dragon Fly	7,000/-	Mr. Manju D	6 months	Ongoing
5	KSCST	Secure Key Management with Fuel Theft and Vehicle Anti- Theft Alert	7,000/-	Prof. Sarala T	6 months	Ongoing
6	VTU	The future of Wireless in Vehicle Charging- Design & Implementation of the magnetic coils in parking areas and roads to get continuous wireless charging for Electric Vehicles.	5000/-	Prof. Sarala T	6 months	Completed
7	VTU	Design & Implementation of Low-cost Ultraviolet sterilization robot for better human health care services.	5000/-	Prof. Ravi Gatti Prof. Santosh Kumar S	6 months	Completed
<b>Total</b>			<b>42,000/-</b>			

  
**Programme Coordinator**  
HEAD, DEPT. OF E & CE  
SRI VENKATESHWARA  
COLLEGE OF ENGINEERING  
BANGALORE-562 157



## Department of Electronics & Communication Engineering

### List of Grants received from various Organization for Research & event organization

#### ACY 2020-21

Sl No.	Funding Agency	Project Title	Approval Amount	Name of the PI & Co-PI	Duration	Ongoing/Complete
1	AICTE	“Training for Social Connectedness & Inspiration” under AICTE Training and Learning (ATAL)	93,000/-	Dr. Shivashankar Dr.Dileep Reddy Bolla	3 months	Completed
2	VTU	Detection of Human body under water	5,000/-	Dr.Keshavamurthy	6 months	Completed
3	VTU	IoT based Monitoring and generation of power using Industrial Exhaust fans	5,000/-	Prof.Mahaveer Penna / Prof.Rajendra Prasad P	6 months	Completed
4	KSCST	DESIGN AND IMPLEMENTATION OF LOW COST ULTRAVIOLET STERILIZATION ROBOT TO AVOID INFECTION FOR BETTER HUMAN HEALTH CARE SERVICES	6,000/-	Prof. Ravi Gatti Prof. Santosh Kumar S	6 months	Completed
5	KSCST	SIGNAL DETECTION FOR BATTERYLESS BACKSCATTERING SYSTEMS WITH RFID ANTENNA TAGS	6,000/-	Dr. Poornima G R Prof. Avinash J L	6 months	Completed
6	KSCST	TIMING SYNCHRONISATION TECHNIQUE WITH A SYMBOL RATE FOR WIRELESS OFDM SYSTEM WITH LOW POWER	6,000/-	Dr. Poornima G R Prof. Avinash J L	6 months	Completed

7	KSCST	COVID-19 BASED SMART HELMET	6,000/-	Prof. Swathi N	6 months	Completed
8	KSCST	PREDICTING PRESSURE ULCERS IN CRITICAL CARE PATIENTS USING DEEP LEARNING AND WEARABLE SENSORS	6,500/-	Dr. Satya Srikanth Pale Dr. Dileep Reddy Bolla	6 months	Completed
<b>Total</b>			<b>1,33,500/-</b>			



**Programme Coordinator**  
**HEAD, DEPT. OF E & CE**  
**SRI VENKATESHWARA**  
**COLLEGE OF ENGINEERING**  
**BANGALORE-562 157**



## Department of Electronics & Communication Engineering

### List of Grants received from various Organization for Research & event organization

#### ACY 2019-20

Sl No.	Funding Agency	Project Title	Approval Amount	Name of the PI & Co-PI	Duration	Ongoing/ Complete
1	AICTE	7 Days Faculty Development Program (FDP) for Student Induction Program for AICTE approved institutions.	7,24,449/-	Dr. Shivashankar Prof. Rajendra Prasad P	6 months	Completed
2	AICTE	Samruddhi – An Innovative Smart Railway Platform Assist in Domestic Railway Station	19,38,666/-	Dr. Shivashankar	2 Years	Completed
3	AICTE	Personality and Skill Development among SC/ST students for the purpose of job acquiring.	9,47,983/-	Dr. Shivashankar	3 Years	Ongoing
4	AICTE	Short term Training Programme – Optimization Techniques for 5G Cellular Networks, Compressive sensing and Data Science using MATLAB	2,84,666/-	Dr. Shivashankar	1 Year	Completed
5	KSCST	Design and Implementation of Vision Module for Visually Impaired People	5,500/-	Prof. Ravi Gatti / Prof.Sunil Kumar	1 Year	Completed
6	KSCST	Design and Implementation of Smart shopping Basket	7,000/-	Prof.Arjun Kumar	1 Year	Completed
7	KSCST	Solar Powered PV Panel Cleaning Robot using IoT	5,500/-	Prof. Santosh Kumar S Prof. Nataraj N	1 Year	Completed
<b>Total</b>			<b>39,13,764/-</b>			

  
**Programme Coordinator**  
HEAD, DEPT. OF E & CE  
SRI VENKATESHWARA  
COLLEGE OF ENGINEERING  
BANGALORE-562 157



**List of Grants received from various Organization for Research & event organization:**

**AY 2018-19**

Sl No.	Funding Agency	Project Title	Approval Amount	Name of the PI & Co-PI	Duration	Ongoing/Complete
1	DST	Intelligent Off Grid System for Energy Sustainable Village	2,40,87,557/-	Dr.Shivashankar Prof.G R Poornima	2 Years	Ongoing
2	AICTE	Modernization of Cloud Radio Access Network Applications Laboratory for 5G Networks	6,63,000/-	Dr.Shivashankar	2 Years	Completed
3	AICTE	Prerana Scheme to Promote, Educate & Encourage SC/ST Students for their Higher Education	7,20,000/-	Dr.Shivashankar	1 Year	Ongoing
4	AICTE	Workshop on “Faculty Training for Student Induction Programme”	1,65,133/-	Dr.Shivashankar	6 months	Completed
5	KSCST	SWACHH ROBO: One's Cleanliness Identity	9000/-	Dr. Jijesh J J Prof. Dileep Reddy Bolla	6 Months	Completed
6	KSCST	Monitoring of Illegal Logging And Forest Fire Using Wireless Sensor Network	8000/-	Dr.Shivashankar Prof. Pramod M S	6 Months	Completed
7	KSCST	Smart Movable Road Divider Using IoT	8000/-	Prof. Satya Srikanth Palle Prof. Mahaveer Penna	6 Months	Completed
8	KSCST	Braille To Voice Conversion Using Tactile Sensor	10000/-	Prof. K Lakshman Arun Kumar Prof. Mamtha K S	6 Months	Completed
9	KSCST	Traffic Sign Detection And Alerting For Driver Assistance System Using Deep Learning Algorithm	6000/-	Prof. Sathya Srikanth Palle Prof. Jijesh J J	6 Months	Completed
10	KSCST	Home Appliance Automation Using Brain Waves	6000/-	Dr.Shivashankar	6 Months	Completed
11	KSCST	Swarm-Based Unmanned Underwater Vehicles to Oversee Dams And Its	8000/-	Dr. Jijesh J J Prof. Mahaveer penna	6 Months	Completed

		Surrounding Ecosystem				
12	KSCST	Smart Security System Using IoT Based Smart Camera With Automatic Door Locking System.	7000/-	Prof. Sarala T Prof. Ashwini S R	6 Months	Completed
13	KSCST	Integrated Secure Columnist Hexpod All-Terrain Full Time Counter-FOE Master.	7000/-	Prof. Swathi N Prof. Ashwini N S	6 Months	Completed
14	VTU	IoT based agriculture using AGRIBOT	5000/-	Prof. Santosh Kumar S	6 Months	Completed
15	VTU	Design of driverless railways using Li-Fi Technology	5000/-	Prof. Rajendra Prasad P	6 Months	Completed
<b>Total</b>			<b>25,714,690/-</b>			



**Programme Coordinator**  
**HEAD, DEPT. OF E & CE**  
**SRI VENKATESHWARA**  
**COLLEGE OF ENGINEERING**  
**BANGALORE-562 157**



**List of Grants received from various Organization for Research & event  
organization:**

**AY 2017-18**

Sl No.	Funding Agency	Project Title	Approval Amount	Name of the PI & Co-PI	Duration	Ongoing/Completed
1	AICTE	FDP on Advance and Development with EDA Tools in Embedded & Communication Design for Researchers	4,75,000/-	Dr.Shivashankar	2017	Complete
2	AICTE	Workshop on "Embedded System Design using Raspberry Pi"	1,00,000/-	Dr.Shivashankar	2017	Complete
3	KSCST	Low cost Heart Monitoring System using Embedded System	6,000/-	Prof.Ravi Gatti	6 Months	Complete
4	KSCST	Design and Implementation of Peltier Based Solar Powered Air Conditioning & Water Heating System	8,000/-	Prof.Arjun Kumar G B	6 Months	Complete
5	VTU	Design and Implementation of Peltier Based Solar Powered Air Conditioning & Water Heating System	5,000/-	Prof.Arjun Kumar G B	6 Months	Complete
6	VTU	Detection and Monitoring of Manhole Opening Urban area using Sensor and GPS Techniques to avoid life loss	5,000/-	Dr.Shivashankar	6 Months	Complete
7	VTU	Workshop on "Promotion of Academic Integrity, Research Methodology and Plagiarism Prevention"	25,000/-	Dr.Shivashankar	2017	Complete
8	DST	Entrepreneurship Awareness Camp	20,000/-	Dr.Shivashankar	2017	Complete
<b>Total</b>			<b>6,44,000/-</b>			

  
**Programme Coordinator**  
HEAD, DEPT. OF E & CE  
SRI VENKATESHWARA  
COLLEGE OF ENGINEERING  
BANGALORE-562 157



**List of Grants received from various Organization for Research & event  
organization:**

**AY 2016-17**

SI No.	Funding Agency	Project Title	Approval Amount	Name of the PI & Co-PI	Duration	Ongoing/ Completed
1	VGST	SMSYR-Low Cost Smart Antenna for High Performance Wireless Communication	5,00,000/-	Dr.Shivashankar	1 Year	Complete
2	KSCST	Plant to reuse water using Sensor Technology	7,000/-	Dr.Shivashankar	6 Months	Complete
3	KSCST	GPS-GSM Inland Vessel Tracking System	6,000/-	Prof.Swapna C H	6 Months	Complete
4	KSCST	Artificial Intelligence Classifier to identify Bank fraud in Demonetization	3,000/-	Dr.Shilpa Mehta	6 Months	Complete
5	KSCST	Monitoring of Highway wind power parameter and controlling Highway Light through IoT	6,000/-	Prof.Pramod M S	6 Months	Complete
6	M/s.Global Vacuum Products	PID Control panel for a Bench Top Vacuum Oven	12,500/-	Prof.G R Poornima	6 months	Complete
<b>Total</b>			<b>5,34,500/-</b>			

  
**Programme Coordinator**  
HEAD, DEPT. OF E & CE  
SRI VENKATESHWARA  
COLLEGE OF ENGINEERING  
BANGALORE-562 157






**List of Grants received from various Organization for Research & event  
organization:**

**AY 2015-16**

SI No.	Funding Agency	Project Title	Approval Amount	Name of the PI & Co-PI	Duration	Ongoing/ Completed
1	VGST	Automatic Theft Detector & Locker for Automatic Teller Machine	40,000/-	Dr. Vijayashree R B	6 months	Completed
<b>Total</b>			<b>40,000/-</b>			

  
**Programme Coordinator**  
HEAD, DEPT. OF E & CE  
SRI VENKATESHWARA  
COLLEGE OF ENGINEERING  
BANGALORE-562 157





## Department of Electronics & Communication Engineering

### Patents Published

Sl. No.	Date of filing	Faculty Name	Title of the Project	Status	Application / Publication Number	Link
1	18/01/2021	Dr. Shivashankar Prof. Arjun Kumar G B	A Smart market Canny Shopping Basket	Published	202141002214	<a href="https://wipo.int/patdb/wipo/ipdb/ipdetails.do?pat=IN202141002214">IN202141002214 A SUPERMARKET CANNY SHOPPING BASKET (wipo.int)</a>
2	23/05/2019	Dr. Shivashankar Dr. Keshavamurthy Prof. Arjun Kumar G B	Advanced smart Aquaponics technology for future farming in agriculture	Published	201941022588A	<a href="https://wipo.int/patdb/wipo/ipdb/ipdetails.do?pat=IN201941022588">IN201941022588 ADVANCED SMART AQUAPONICS TECHNOLOGY FOR FUTURE FARMING IN AGRICULTURE (wipo.int)</a>
3	27/08/2019	Swapna C H	Navigation cane for Visually Impaired People along with application.	Published	201941034393 A	<a href="https://wipo.int/patdb/wipo/ipdb/ipdetails.do?pat=IN201941034393">IN201941034393 NAVIGATION CANE FOR VISUALLY IMPAIRED PEOPLE ALONG WITH APPLICATION (wipo.int)</a>
4	14/06/2019	Swapna C H Aadya Pant	Security Module for Bags	Published	201941022591 A	<a href="https://wipo.int/patdb/wipo/ipdb/ipdetails.do?pat=IN201941022591">IN201941022591 SECURITY MODULE FOR BAGS (wipo.int)</a>
5	22/02/2019	Dr. Poornima G R Prof. Sridhar N K	Grill Doors alignment to the train compartment door on the railway platform	Published	201941005943 A	<a href="https://wipo.int/patdb/wipo/ipdb/ipdetails.do?pat=IN201941005943">IN201941005943 GRILL DOORS ALIGNMENT TO THE TRAIN COMPARTMENT DOOR ON THE RAILWAY PLATFORM (wipo.int)</a>
6	28/08/2018	Dr. Shivashankar	Solar powered air conditioning	Published	201841032095	<a href="https://wipo.int/patdb/wipo/ipdb/ipdetails.do?pat=IN201841032095">IN201841032095 SOLAR POWERED AIR CONDITIONING</a>

		Prof. Arjun Kumar G B	and water heating apparatus and a method thereof			<a href="#">AND WATER HEATING APPARATUS AND A METHOD THEREOF (wipo.int)</a>
7	07.04.2018	Dr. Shivashankar	RTEICT Trade Mark	Approved	<a href="#">3799155</a>	
8	14.09.2018	Mrs. Swapna C H Mrs. Aadya Pant	Automatic Gas Leakage Detection and Safety	Published	<a href="#">201841033208</a>	<a href="#">IN201841033208 AUTOMATIC GAS LEAKAGE DETECTION AND SAFETY (wipo.int)</a>
9	24.08.2018	Mrs. Swapna C H Mrs. Aadya Pant	Automatic Gas Cut-Off Based on Pressure Cooker Whistle	Published	<a href="#">201841030054</a>	<a href="#">IN201841030054 AUTOMATIC GAS CUT-OFF BASED ON PRESSURE COOKER WHISTLE (wipo.int)</a>
10	31.08.2018	Mr. Suraj S	Smart Twin Bin with A Methodology Of Segregating Wet and Dry Waste	Published	<a href="#">201841031012</a>	<a href="#">IN201841031012 SMART TWIN BIN WITH A METHODOLOGY OF SEGREGATING WET AND DRY WASTE (wipo.int)</a>
11	30.11.2018	Dr. Mukesh Kumar Singh Mrs. Poornima G R Mr. Shridhar N K	Meter to Meter Animal Intruder & Fire Detection Intimation System for Village surrounded by the forest.	Published	<a href="#">201841043967A</a>	<a href="#">IN201841043967 METER TO METER, ANIMAL INTRUDER AND FIRE DETECTION INTIMATION SYSTEM FOR VILLAGES SURROUNDED BY THE (wipo.int)</a>
12	17.05.2017	Dr. Shilpa Mehta	Artificial Intelligence Classifier to Identify bank Frauds during Demonetization	Pending	201741017286	
13	12.02.2016	Dr. Pritam Gajkumar Shah	An Apparatus and method based on one's	Published	<a href="#">3204/CHE/2014</a>	<a href="#">IN3204/CHE/2014 AN APPARATUS AND METHOD BASED ON</a>

			compliment subtraction recoding technique of integer in elliptical curve cryptograph for the wireless sensor network platform			<a href="#">ONE'S COMPLEMENT SUBTRACTION RECODING TECHNIQUE OF INTERGER IN ELLIPTICAL CURVE CRYPTOGRAPH FOR THE WIRELESS SENSOR NETWORK PLATFORM (wipo.int)</a>
--	--	--	--	--	--	---



**Programme Coordinator**  
HEAD, DEPT. OF E & CE  
SRI VENKATESHWARA  
COLLEGE OF ENGINEERING  
BANGALORE-562 157