



Signal Processing Research Group

The advent of technological developments resulted in many signal acquisition methodologies for capturing the real time physical phenomenon. The acquired data must be effectively analyzed for better interpretation. Signal processing focuses on analyzing, modifying and synthesizing signals such as sound, images and scientific measurements. Signal processing techniques can be used to improve transmission, storage efficiency and subjective quality and to also emphasize or detect components of interest in a measured signal. Based on the nature of the signal acquired, number of sub domains of signal processing has been formulated like image processing, Bio medical signal processing, and video processing and so on depending on the physical measurement made.

Objectives:

The objective is to provide research group members with the ability to identify the problem in the broad area of Signal processing and design as well as develop algorithms for real time applications. The objectives of the Signal processing group are:

- To provide an insight to the members about the developments in Signal processing Domain. with a detailed understanding of the operation, function and interaction between various components and sub-systems used in power electronic converters, electric machines and adjustable speed drives
- To educate the members about the areas that are correlated with and enable design and simulation of algorithms using popular software.
- To provide the member with experience of the practical implementation of Signal Processing Algorithms using Digital Signal Processors.
- To conduct staff colloquiums for sharing the knowledge among one another.
- To make use of facilities in the research group and produce quality publications.
- To conduct Faculty development Programs periodically on core areas of Signal Processing.

Members of Signal Processing Group:

S.No	Name	Position
1.	Dr.G.L.N.Murthy	Coordinator
2.	Dr.E.V.Krishna Rao	Member
3.	Dr.B.Ramesh Reddy	Member
4.	Dr.K.Ravi Kumar	Member
5.	Mr.V.V.Rama Krishna	Member
6.	Mr. T.Anil Raju	Member
7.	Mr. M.K. Linga Murthy	Member
8.	Mr. M.Siva Sankara Rao	Member
9.	Smt.B.Rajeswari	Member
10.	Mr. P.Venkateswara Rao	Member
11.	Mr.K.Sridhar Reddy	Member
13.	Mr.M.Sambasiva Reddy	Member
14.	Mr.P.James Vijay	Member

Major Research Equipment:

S. No	Name of The Equipment	Qty.	Cost in Rs.
Hardware (Systems, DSP Processors & Accessories)			
1.	LENOVO DESKTOP Edge – 73– 10 ASA07TIH @ Intel H81, Core i3 Processor, 4GB DDR3 RAM, 500GB HDD, 18.5” LED Monitor.	30	8,59,500.00
2.	HP Pro Desktop - INTEL(R) COR(TM) I3-2100 CPU @3.10GHz, 3.09GHz, 17”-LED.	06	1,47,000.00
3.	DSP KITS (DSK) TMS320C6711 with Code Composer Studio.	10	3,01,570.00
4.	DSP Starter Kit (DSK) TMS320C6713 with Code Composer Studio.	01	2,00,000.00
5.	DSP Starter Kit (DSK) TMS320C6416 with Code Composer Studio.	01	
6.	Finger Print Development Kit Based on C5515.	01	
	Interfacing Cards For C6000 DSK		
7.	Image Daughter Card with Camera & Accessories.	01	
8.	4 Channel Audio Daughter Card	01	
9.	APC ONLINE UPS 6 KVA	01	1,06,771.00
10.	TMS320C6748 DSP Development Kit	04	1,24,004.00
Software			
1.	Matlab 9.0	100	8,08,012.00
2.	Simulink 8.7	50	
3.	Tool Boxes		
	Image Processing Toolbox 9.4	05	
	DSP System Toolbox 9.2	05	
	Signal Processing Toolbox 7.2	05	
	Communications System Toolbox 6.2	05	
	Fuzzy Logic Toolbox 2.2.23	05	
	Neural Network Toolbox 9.0	05	
	Control System Toolbox 10.0	05	
	Simscape 4.0	05	
	Simscape Power System 6.5	05	
Total			25,46,857.00

Outcome of Signal Processing Research Group

		2023-24	2022-23	2021-22	2020-21	2019-20	2018-19	2017-18	2016-17	2015-16
Journals	SCI	3	1	1	02	00	01	01	03	01
	SCOPUS	8	0	2	00	18	08	03	03	03
	UGC	0	0	0	00	00	04	18	00	00
	Others	3	1	4	00	01	03	03	13	11
Conferences		9	15	5	00	00	01	01	00	05
Books Published		1	09	01	01	00	00	00	00	00
Patents		2	5	6	01	00	00	00	00	00
Project Proposals Submitted		2	0	0	03	04	03	00	00	01
Projects Completed		0	0	0	00	00	00	00	00	00
Research Colloquiums			8	3	00	16	11	10	04	04

International Journals Publications in the period of 2023-2024

1. Gopatoti Anandbabu, Jayakumar Ramya, **Poornaiah Billa**, Patteeswaran Vijayalakshmi, “DDA-SSNets: Dual decoder attention-based semantic segmentation networks for COVID-19 infection segmentation and classification using chest X-Ray images”, in Journal of X-Ray Science and Technology, 1-27, April 2024, I.F.-3, ISSN: 0895-3996, H-Index-39 <https://doi.org/10.3233/XST-230421>
2. Rajasekhar Butta, Mstan Sharif Shaik, **G.L.N. Murthy**, “Ensemble deep learning approach for early diagnosis of Alzheimer’s disease” in Multimedia Tools and Applications, April 2024, ISSN: 1380-7501, H-Index-106, I.F.-3.6 <https://doi.org/10.1007/s11042-023-18084-w>
3. M.Surya Bhupal Rao, Y. Mallikarjuna Rao, C. Venkataiah, **G.L.N.Murthy**, M. Dharani, Manjula Jayamma, “Deep learning based classification of COVID-19 severity using hierarchical deep maxout model”, in Biomedical Signal Processing and Control, 88, Part A, November 2023 ISSN:1746-8108, H-Index-94, I.F.-5.1. <https://doi.org/10.1016/j.bspc.2023.105653>
4. Ambidi Naveena, Shaik Nannu Saheb, Ratnababu Mamidi, **Godavarthi Lakshmi Narasimha Murthy**, Automated hydroponic nutrient control system for smart agriculture, in Indonesian Journal of Electrical Engineering and Computer Science, 33(2), ISSN-2502-4752, February 2024. <http://doi.org/10.11591/ijeecs.v33.i2.pp839-846>
5. Ramakoteswararao Siddabathuni, Sivagurunathan Palanivel, **Godavarthi Lakshmi Narasimha Murthy**, “Alzheimer image registration using hybrid random forest and deep regression network algorithm” in Indonesian Journal of Electrical Engineering and Computer Science, 33(2), ISSN- 2502-4752, February 2024. <http://doi.org/10.11591/ijeecs.v33.i2.pp824-831>
6. Anumolu Anupama, Hari Krishna Yaragani, **Bojja Ramesh Reddy**, Tagallamudi Srinivasa Rao, Venkata Ramana Reddy Gurrampati, “Impact of Magnetohydro dynamics on Hyperbolic and Walters-B Non-Newtonian Fluids”, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences, 113(1), 82-94, ISSN: 2289-7879 <https://doi.org/10.37934/arfmts.113.1.8294>
7. Tagallamudi Srinivasa Rao, Mamata Mohan Babu, **Ramesh Reddy Bojja**, Naga Santoshi P, Venkata Ramana Reddy Gurrampati, “ Thermal Radiation Effects on MHD Casson and Maxwell Nanofluids over a porous stretching surface”, Passer Journal of Basic and Applied Sciences, 6(1), 119-126, February 2024, ISSN:2706-5944 <http://doi.org/10.24271/psr.2024.416203.1389>

8. **Ravi Kumar Kandagatla**, V.Jayachandra Naidu, P.S. Sreenivasa Reddy, Veera Kavya Pandilla, Marriwada Joshitha, Chanamala Rakesh, Analysis of EEG Signals for the detection of epileptic seizures using feature extraction, SciEnggJ, 2024(4), 28-35, February 2024, ISSN: 2799-189X,
<https://doi.org/10.54645/202417SupCQP-72>
9. **Ravi Kumar Kandagatla**, V.Jayachandra Naidu, P.S. Sreenivasa Reddy, Gayatri M, Jahnvi A, Rajeswari K, Analysis of statistical estimators and neural network approaches for speech enhancement, SciEnggJ, 2024(4), 17-27, February 2024, ISSN: 2799-189X,
<https://doi.org/10.54645/202417SupXBB-31>
10. Maha Lakshmi Tirumalasetty, **Ravi Sekhara Reddy Vuppuloori**, Balaji Tata, Venkata Ganeswara Rao Maddipati, Jaya Navaneethan, Upendra Chowdary Kurra, Koteswara Rao Kodepogu, Lalitha Kumari Gaddala, Surekha Yalamanchil, Systematic Survey on Chronic Kidney Disease prediction using different Machine Learning Techniques, in Revue d'Intelligence Artificielle, December 2023, H-Index-17, ISSN:1958-5748, 1645-1650,
<https://doi.org/10.18280/ria.370629>
11. Kamireddy Vijay Chandra, Kala Praveen Bagadi, Visalakshi Annepu, K. Sudha Rani, **Poornaiah Billa**, “Specular Corneal Endothelium Dystrophic Image Analysis with Artificial Intelligent Convolution Filter”, International Journal of Performability Engineering, 19(12), December 2023, 807-816, ISSN: 2993-8341
<https://www.ijpe-online.com/EN/10.23940/ijpe.23.12.p5.807816>
12. Bethala Ramys, Sudhakar Reddy, Krishna Sai Ujwal Kambhupati, Battula Sowjanya, V.V. Rama Krishna, Rednam SS Jyothi, Anil Kumar Pallikonda, “SRP-Efficient Modified GSM Cloud based Weather monitoring sing wireless sensor networks” in Journal of Theoretical and Applied Information Technology, 102(10), May 2024, ISSN:1992-8645, 5436-5441.
<https://www.jatit.org/volumes/Vol102No10/19Vol102No10.pdf>
13. Narendra Babu Alur, Supraja K.S.V, Praneetha A, Manoj G, Kota Lokesh G, Brahmanandam P.S, A Deep Learning Model for Effective Cyclone Intensity Estimation” in Journal of Engineering, Management and Information Technology, ISSN: 3009-3953.
<https://journals.indexcopernicus.com/api/file/viewByFileId/1976544>
14. A.Narendra Babu, S. Poojitha Gayatri, A. Praneetha, P.Vamsi, G.P. Naga Venkata Sai Ram, P.S. Brahmanandam, “Leaf Shield: Advanced leaf disease detection and robotic pest management system” in Technische Sicherheit, 24(2), April 2024, ISSN: 1436-4948

International Journals Publications in the period of 2022-2023

1. IoT framework for monitoring the condition of roads, **Ravi Kumar Kandagatla, V. Jayachandra Naidu, P.S. Sreenivas Reddy, T.V. Preethika Lahari, J. Prudhvi, K. Kavya Sri, S. Dhanush**, Journal of Engineering Science and Technology, 18(1), January 2023, 100-111, 1823-4690
2. Breast Cancer Segmentation with preprocessing and DNN, **T. Anil Raju, V. Jayanth, S. Gayathri, T. pavan Kalyan**, International Journal of Engineering Research & Technology, 12(3), March 2023, 420-425, ISSN: 2278-0181

International Journals Publications in the period of 2021-2022

1. An efficient low complexity compression based optimal homomorphic encryption for secure fiber optic communication, D. Venu, A.V.R. Mayuri, S. Neelakandan, **G.L.N. Murthy**, N. Arulkumar, Nilesh Shelke, Optik, 252, February 2022, 168545, 0030-4026 (Print), 1618-1336 (online)
2. Blockchain with deep learning-enabled secure healthcare data transmission and diagnostic model, S. Neelakandan, J. Rene Beulah, L. Prathiba, **G.L.N. Murthy**, International Journal of Modeling, Simulation, and Scientific Computing, Jan 2022, 1793-9615 (online).
3. Design and Performance Analysis of buffer inserted onchip global nano interconnects in VDM technologies, C. Venkataiah, N. Ramanjaneyulu, Y. Mallikarjuna Rao, V.N.V. Satya rakash, **M.K. Lingamurthy**, N. Sreenivasa Rao, Nanotechnology for Environmental Engineering, May 2022, 2365-6379 (Print)
4. Intelligent Traffic Control System using ARM7 Controller and Image Processing Techniques, E.V. Krishna Rao, N. Alekhya, K. Rupa, M. Sai Sujith, Sk Abdulla Aman Ahmed, Revista Geintec-Gestao Inovacao E Tecnologias, 11(4), (July 2021), 2726-2735, 2237-0722 (online)
5. Design of High Speed and Low Area Confined Multiplier on FPGA, Kandagatla Ravi Kumar, Cheeli Priyadarshini, Kanakam Bhavani, Ankam Varun Sundar Kumar, Palanki Naga Nanda Sai, Revista Geintec-Gestao Inovacao E Tecnologias, 11(4), (July 2021), 2736-2746, 2237-0722 (online)
6. Real Time Face Mask Detection and Thermal Screening with Audio Response for COVID-19, M. Sivasankara Rao, K. Tejasree, P. Sathwik, P. Sandeep Kumar, M. Sailohith, Revista Geintec-Gestao Inovacao E Tecnologias, 11(4), (July 2021), 2703-2714, 2237-0722 (online)
7. Low Cost Intelligent Smart Glasses for Visually Challenged Persons, **Linga Murthy M.K.**, Macharla Gowtham, Marakapudi Priyanka, Degala Mohit, Pavan Gurijala, Turkish Journal of Physiotherapy and Rehabilitation

International Journals Publications in the period of 2020-2021

1. **G.L.N. Murthy**, R. Murali, S. Vijaya Shilpa, Ch. Durga Prasad, D. Mounica, " A Two Level

Algorithm for Detection of Voice Pathology using Random Forest with Reduced Feature Dimension" in *Turkish Journal of Physiotherapy and Rehabilitation*, Vol.32, Issue.03,pp.7109-7115 June 2021, ISSN: 2651-4451 **(ESCI Journal)**

2. **Ravi Kumar Kandagatla** , Venkata Subbaiah Potluri, "Performance Analysis of Neural Network, NMF and Statistical Approaches for Speech Enhancement" in *International Journal of Speech Technology*, Vol.23, ISSN: 1381-2416, pp.917-937, H-Index-26, Impact factor-2.2, September 2020, H-index-29, Impact Factor- 1.059, DOI: **10.1007/S10772-020-09751-6 (ESCI+SCOPUS Journal)**

International Journals Publications in the period of 2019-2020

1. **Y. Amar Babu, Yaramala Madhavi**, “ Fault Free FFT Processor Design Using Parsavel Checks” in *International Journal of Advanced Science and Technology*, Vol.128, Issue No. 01, **July 2019**, pp:1-8, ISSN: **2207-6360**, **H.Index-4 (SCOPUS JOURNAL)**.
2. **E.V. Krishna Rao, Dr. A. Narendra Babu, V. Trinethra, B. Raghavendra, R. Surendra Babu, B. Haritha**, “Automatic Attendance System through Video Monitoring”, in *TEST Engineering & Management*, Vol.83, **April 2020**, ISSN:**0193-4120**, pp:7874-7879, **H-Index-5, (SCOPUS JOURNAL)**.
3. **B. Ramesh Reddy, S.V. Pratyusha, Mohammad Ayesha, T. Lakshmi Priyanka, U. Vijaya Seshagiri Rao**, “ Extraction, Segmentation and Exudates Detection in Retinal Vessels using Morphological and Clustering with Neural Networks” in *International Journal of Advanced Science and Technology*, Vol. 29, Issue. 03, **March 2020**, pp. 5880-5889, ISSN: **2005-4238**, **H.Index-4, (SCOPUS JOURNAL)**.
4. **B. Ramesh Reddy, T. Praveen Kumar, R. Prudhvi, T. Jeevan Kumar, M. Sowjanya**, “Retinal Blood Vessel Sectionalisation of otical Fundus Images using Gabor Wavelet Transform”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March-2020**, pp.1166-1173, DOI: **10.5373/JARDCS/V12I2/S20201150**, ISSN:**1943-024X**, **H-Index-8, (SCOPUS JOURNAL)**.
5. **M. Venkata Sudhakar, B. Hrudini, G. Sushm, S. Lokesh, N. Sandeep**, “Voice Assisted Cancer Prognostication using Machine Learning” in *International Journal of Control and Automation*, Vol.13, Issue-03, pp:77-84, **May 2020**, ISSN:**2005- 4297**, **H-Index-18, (SCOPUS JOURNAL)**.
6. **G.L.N. Murthy, Sk. Gousie Mohiddin, B. Saida Reddy, Y.Md. Imran, Durga Prasad Reddy** “Delineation Of Putamen From The Brain Magnetic Resonance Image For Parkinson Disease Related Applications” , in *International Journal of Advanced Science and Technology*, Vol.29, Issue.3, **Feb 2020**, pp:3630-3635, ISSN: **2207-6360**, **H.Index-4 (SCOPUS JOURNAL)**.
7. **G.L.N. Murthy, Ch. LakshmiSindhura, T.Vara Lakshmi, D. Abhitej, G. Sai**, “ Detection of rhythm power reduction in Alzheimer’s disease related disorders” in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2,

March-2020, DOI: 10.5373/JARDCS/V12I2/S20201033, pp-616-622, ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).

- 8. K. Sasi Bhushan, K.T.N.V. Prasad, A. Binusha, K. Lavanya, P.V. Naveen, “Analysis of Brain tumor Using Anisotropic Filtering and SVM Classifier”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March- 2020**, pp.1399-1402, DOI:10.5373/JARDCS/V12I2/S20201179, ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).**
- 9. T. Anil Raju, B. Uma Maheswari, N. Charan Teja, Ch. Sandhya, Ch. Sai Kalyan, “Brain Perfusion Quantification and Functional Analysis of Quadra-Echo Arterial Spin Labeling”, in *International Journal of Advanced Science and Technology*, Vol. 29, Issue-6, pp.3204-3212, **April 2020**, ISSN: 2005-4238, H-Index-4, (SCOPUS JOURNAL).**
- 10. M.K. Linga Murthy, D. Bhargavi, V. Nagamani, S. Divya, P. Jagadeesh, “Novel Approach for Image Cryptography” in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March-2020**, DOI:10.5373/JARDCS/V12I2/S20201088, pp.721-726, ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).**
- 11. M.K. Linga Murthy, K. T. R. S. Ruchitha, P. Jagadeesh, Md. Shahed Hassan, B. Vijaya Durga, “Hybrid Model for Handwritten Character Recognition using Neural Networks”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March-2020**, DOI: 10.5373/JARDCS/V12I2/S20201089, pp.727-733, ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).**
- 12. M. Sivasankara Rao, B. Yogithasingh, V. Naveenkumar, N. Kiranmai. Sk. Mohiddin, “Online Signature Verification by using KNN Algorithm”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March-2020**, pp.1072-1079, DOI:10.5373/JARDCS/V12I2/S20201072, ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).**
- 13. P. Venkateswara Rao, B. Naresh, B. Aditya Singh, K. Lavanya, Ch. Keerthi, “Advanced Security and Assisting System based on Face and Eye Blink Detection”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue.2, **March-2020**, pp.1174-1178. DOI: 10.5373/JARDCS/V12I2/S20201151, ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).**
- 14. Bhavani L, Venkata Manikrishna, V. Sai Kiran, P. Bala vardhan, P. Jayakanth, “Counterfeit Currency Note Detection Using Matlab”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March-2020**, pp:610- 615. DOI: 10.5373/JARDCS/V12I2/S20201032, ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).**
- 15. M. Samba Siva Reddy, B. Sandilya, V. Venugopal Reddy, K. Keerthi, V. Neelima, “Blood Grouping and Viral Fever Detection Through Image Processing”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, **March- 2020**, pp.661-666, DOI: 10.5373/JARDCS/V12I2/S20201038, ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).**
- 16. B. Rajeswari, R.V. Krishnachary, S. Bhanuvikas, B. Prasad, N. KamalTeja, “Spatial Encoding of ASL images using time encoding transform techniques”, in *International Journal of Advanced Science and Technology*, Vol. 29, Issue-5, pp.274-281, **April 2020** ISSN: 2005-4238, H-Index-4, (SCOPUS JOURNAL).**

17. **Ravi kumar Kandagatla**, Ramya Sai Daddanala, Kandula Lakshmi Prasanna, Karnati Venkata Narsamma, P.V. Subbaiah, Chegu Seshu Kumar, “ Speech Enhancement Using Neural Network”, in *Journal of Advanced Research in Dynamical & Control Systems*, Vol. 12, Issue. 2, May 2020, pp.2328-2334, DOI: 10.5373/JARDCS/V12I2/S2021279, ISSN: 1943-024X, H-Index-8, (SCOPUS JOURNAL).
18. **K. Ravi Kumar, K. Bindu Sri, K.V. Sanjay, P. Naveen Kumar, S. Sandhya, Y. Mallikarjuna Rao**, P.V. Subbaiah, Ch. Seshu Kumar, “ A Review on Beamforming Approaches for Speech Enhancement”, in *International Journal of Control and Automation*, Vol.13, Issue-04, pp:590595, May 2020, ISSN:2005-4297, H-Index-18, (SCOPUS JOURNAL).
19. **Ravi Kumar. K, P.V. Subbaiah**, “Performance Analysis of Statistical Approaches and NMF Approaches for Speech Enhancement”, in *International Journal of Image, Graphics and Signal Processing*, Vol.11, Issue. 07, July-2019, pp:9-38, ISSN: 2074-9082, DOI: 10.5815/ijigsp.(Open Access)

International Journals done by the Faculty and Students in the period 2018-2019

1. **Dr. Y. Amar Babu**, M. Chandu, M. Raja, P. Sowjanya, S. Bhargav, “ Adaptive Speech Noise Cancellation using Least Mean Square Algorithm”, *Journal of Technical Innovation in Modern Engineering & Science* , Vol.5, Issue 4, ISSN No: 2455-2585, April 2019 (UGC Approved Journal)
2. **E.V. Krishna Rao, A. Narendra Babu, S.V. Jagadeesh Chandra, G. Srinivasa Rao**, S. Deepika Kiranmai, A. Sai Bhaskar, P. Pavan Kalyan, B. Divya, “ Hand Gesture controlled Mouse”, *International Journal of Innovative Technology and Exploring Engineering* , Vol.8, Issue 8, ISSN: 2278-3075 pp: Scopus Indexed Journal
3. **B. Ramesh Reddy**, Rama Devi Burri, Ram Burri, Srinivasa Rao Buruga, “ Insurance Claim Analysis using Machine Learning Algorithms”, *International Journal of Advanced Science and Technology (IJAST)*, Vol.127, June 2019, ISSN: 2005-4238E pp: 147-155, Scopus Indexed Journal
4. **Y.S.V. Raman, A. Narendra Babu**, M. Krishna Priyanka, Sk. Faria, A. Ramya Sree, G. Naga Prasanna, “ Triple Image Encryption using Chaotic Maps and DNA Sequences”, *International journal of Innovative Technology and Exploring Engineering*, Vol-8, Issue-8, June 2019, ISSN: 2278-3075, pp:2489-2493 Scopus Indexed Journal
5. **Sk Mastan Sharif**, K. Satya Prasad, D. Venkat Rao, “Adaptive decision feedback equalizer with dynamic principle for echo cancellation”, *Transactions of the Institute of Measurement and Control*, ISSN:0142-3312, Vol 40, Issue 16, pp.1- 17, Decembe 2018, ISSN No: 0142-3312, H- Index-33; DOI: 10.1177/0142331218755233,, Impact Factor- 1.57 (SCI JOURNAL)
6. **S.V. Jagadeesh Chandra, A. Narendra Babu, G. Srinivasa Rao**, Sk. Gousiya Begum,

- V. Sai Nageswara Rao, B. Nagababu, B. Prem Kumar “Medical Fusion Image using Wavelet Transform”, International Journal of Innovative Technology and Exploring Engineering (IJITEE), Vol.8, Issue.8, June 2019, pp: 1864-1866 ISSN: 2278-3075 **Scopus Indexed Journal**
7. **V.V.Ramakrishna**, M. Suman, “Identification of Artery Vien in Retinal Image using Local Decision Tree Classifier, International Journal of Recent Technology and Engineering, Vo1.7, Issue 6, April 2019, PP: 669, ISSN No: 2277-3878 **Scopus Indexed Journal**
 8. **M.K.LingaMurthy, Pavani Kollamudi, G.Mahammed Rafi**, “Performance of the low rank matrix technique in image de-noising”, International Journal of Engineering and Technology (UAE), ISSN: 2227-524X, Vol 7, Issue 4, Page No 4445-4447, January 15, 2019 , H-Index- 1, DOI: 10.14419/ijet.v7i4.17569 **Scopus Indexed Journal**
 9. **B. Rajeswari**, P. Abdul Khayum, “ Dynamic Susceptibility Contrast Perfusion Quantification using Spread Bases Function”, International Journal of Engineering and Advanced Technology”, ISSN: 2249-8958, Vol.8, Issue 3, Feb 2019 **Scopus Indexed Journal**
 10. **Ravi Kumar Kandagatla**, PV.Subbaiah, “Posteriori Regularization based Non-Negative Matrix Factorization approach for Speech Enhancement” in International journal of Innovative Technology and Exploring Engineering, ISSN: 2278-3075, Vol-8 Issue-5S March, 2019, **Scopus Indexed Journal**
 11. Mr. **M.K. Linga Murthy** , K.Sai Sri , L. Hanumantha Rao, A. Jagadeesh Kumar, V. Teja, “Text Extraxtion in Different Orientation from Natural Images”, International Journal of Scientific Research and Review”, ISSN No: 2279-543X, Vol.8, Issue 4, 2019, pp: 410-414 (**UGC Approved Journal**)
 12. **Ravi Kumar Kandagatla**, N.D.S.Priyanka, P.Vasavi, S. Sandeep, S.Sai Teja, “Crop disease detection using Machine Learning” in International journal of Technical Innovation in modern engineering & science, ISSN:24552585, Vol-5, Issue-3, March 2019, pp-1245-1252, (**UGC Approved Journal**)
 13. **G.Venkat Rao**,“Speech enhancement and Speech recognition by improving PSNR Value” International Journal of Technical Innovation in Modern Engineering & Science (IJTIMES), ISSN: 2455-2585, July 2018, Volume 4, Issue 7, Page No 19-21, ISSN : 2455-2585, (**UGC Approved Journal**)
 14. **Tella Anil Raju** , Danala Madhuri, “Latency and power optimized AES Cryptography system using Scan Chain Reordering” in *International Journal of Engineering in Advanced Research Science and Technology*, ISSN: 2350-0328, Vol.2, Issue.3, PP-936-942,December-2018, H-Index- 1
 15. Yaramala Madhavi, **Dr.Y. Amar Babu** “ DESIGN OF FFT PROCESSOR USING CONFLICT-FREE ADDRESS SCHEMES ” International Journal of Research, Vol.

VIII, Issue VI, June/2019,pp:5100-5104, ISSN:2236-6124.

16. **R.Harikishan**, B.Ravi Teja Reddy, K.Lakshmi, D.B.V Lakshmi Narayana, B.Sandeep Kumar, “ OCR Based Hands-Free Text Entry Using Lab VIEW” International Journal of Technical Innovation in Modern Science Engineering & Science (IJTIMES) , Vol.5,Issue 4, April -2019,pp: 208-212, e-ISSN-2455-2585.

International Journals done by the faculty in the period of 2017-2018

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7. Srinivasulu Gundala, Chirumamilla Harichandana, Arigela Jaasmitha,Patakottu Lakshmi Brundha “Parkinson’s Disease Identification by Voice and Handwritten Drawings using Xgboost and Random Forest Algorithms”, in 2023 3 rd International conference on Computing and Information Technology (ICCIT)organized by Faculty of Computers and Information Technology, University of Tabuk, Kingdom of Saudi Arabia from 13-09-2023 to 14-09-2023 Online October 2023, ISSN: 979-8-3503-2148-7.
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Madhuri, G. Madhu Sri, Y. Sri Venkata Siva Naga Prasad, International Conference on Signal processing and communication March 23-24 2023 Coimbatore, Online (22-05-2023), Karunya University, 979-8-3503-0077-2

7. Optimizing the Detection of Fake news in multilingual exposition using machine learning, B. Ramesh Reddy, Tejaswi T, Naveen P, Giresh J, Vamsi B, in 7th international conference on Intelligent Computing and Control Systems (ICICCS-2023), at Vaigavi College of Engineering, Madurai, India May 17-19, 2023.
8. Implementation and Analysis of Image Steganography using Convolution Neural Network, M.K. Lingamurthy, P. BinduMadhavi, K. Vamsi, Syed AsifAhamed, inInternational Interdisciplinary Humanitarian Conference for Sustainability (IIHC-2022)held on 18-19 November 2022, Sri Venkateshwara College of Engineering, Bengaluru, India. (Online March 2023)
9. A Novel Algorithm for detecting spasmodic dysphonia voice pathology using random forest frame work, G.L.N.Murthy, V.Ishwarya, K Ramya Sri, K. Harshitha, Ch. Prasanth, in International conference on Edge Computing and Applications (ICECCA 2022) at Gnanamani College of Technology, Namakkal, Tamilnadu., 13-10-2022 to 15-10-2022. October 2022.
10. A machine learning based framework for classification of neuromuscular disorders, G. L. N. Murthy, G. PhawahanSaii, T. Pavani and J. Lalith Mohan, 2022 IEEE 1st International Conference on Data, Decision and Systems (ICDDS), Bangalore, India, December 2022, pp. 01-05, doi: 10.1109/ICDDS56399.2022.10037513. (Online February 2023)
11. Design of FIR Filter under Frequency Domain Responses, Rajesh Singh, Ramapati Mishra, Richa, P.VenkateswaraRao, Gopinathan, Mohammed Khadim, Intelligent Communication and Smart Electrical Systems (ICSES- 2022), at St. Joseph's Institute of Technology (Autonomous), Chennai, India July 2022, 377-379
12. Object Detection Mechanism using Deep CNN Model, K.Ravi Kumar, K. Akhila, P.S. Sreenivasa Reddy, K.S.S. Rama Reddy, D. PavanVamsi, G. Amulya, in 5thInternational Conference on Smart Systems and Inventive Technology(ICSSIT 2023) from 23-25 January 2023, Francis Xavier Engineering College.
13. Wireless Communication Design Using Neural Networks and Deep Learning, Rajesh Singh, VirenderKhurana, M.Sambasiva Reddy, RanjeetYadav, RachitJangir, DhirajKapila, International conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems(ICSES-022), Organized by St. Joseph's Institute of Technology, Chennai, 15-16 July 2022. 317-322 (October 2022 Online)
14. A Secured GUI based flexible automated system for face recognition and

suspicious behaviour prediction, G L N Murthy, Shaik, MastanVali, V. Anil Kumar, S.Satyanarayana Reddy, V Ashok, 7 th International Conference on Communication and Electronic Systems(ICCES-2022) , Jul-22

15. EEG based Smart Wheelchair for disabled persons using Non-Invasive BCI, E.V. Krishna Rao, N. Yaswanthkumar Reddy, B.V.S.S.Greeshma, Y.S.S. Vardhan Reddy, IEEE International Conference on Computational Intelligence and Sustainable Engineering Solutions (CISES),Aug-22

Conferences Attended by the Faculty in the period of 2021 -2022

1. IoT based Smart Protective Equipment for Women, B.Ramesh Reddy, T.Sowjanya, N. Bala Subrahmanyam, G. Mahantesh, S. Prudhvi, Materials Today Proceedings, (July 2021), 2214-7853
2. Smart Virtual Assistant, Pavani Kollamudi, Bhargavi Koduru,Bharathi Poranki,Madhu Priya Golla, Materials Today: Proceedings, (July 2021), 2214-7853
3. Modeling and Investigation on Mixing characteristics of T & Y-Shaped Micromixers for Microfluidic devices , A.Uday Kumar, D. Sai Ganesh, T.Vamsi Krishna, B.Sashank, T. Satyanarayana, Material Today Proceedings, December 2021
4. Speech Enhancement Techniques and its implementation, Jahnavi Nandeti, Ravi Kumar Kandagatla, Ragipati Naga Sai Tejaswini, Mamidi Krupakar, Pragati Haveela, 6 th IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2021), at Sri Venkateshwara College of Engineering, Bengaluru, Karnataka from 27/08/2021 to 28/08/2021
5. Sub space and Frequency Domain Approaches for Speech Enhancement , Jahnavi Nandeti, Ravi Kumar Kandagatla, Ragipati Naga Sai Tejaswini, Mamidi Krupakar, Pragati Haveela, 6 th IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2021), at Sri Venkateshwara College of Engineering, Bengaluru, Karnataka from 27/08/2021 to 28/08/2021

Conferences Attended by the Faculty in the period of 2018 -2019

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	B. Ramesh Reddy, Dr. M.Madhavi, Mr.M.K.Linga Murthy	International Conference on Information Systems Design and Intelligent Applications “Suppression of Artifacts for Mobile ICG using Non -Linear Adaptive Algorithms” Publication Partner Springer India Ltd.	Université des Mascareignes, Mauritius	19th-21st July, 2018

Conferences Attended by the Faculty in the period of 2017 -2018

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	Mr.M.K.Lin ga Murthy	International Conference on Engineering Science & Technology and Intelligent Applications “ Compact Design of Hexagonal Monopole Antenna for UWB Applications Suppression of Artifacts for Mobile ICG using Non -Linear Adaptive Algorithms ”	Vikas College of Engineering and Technology, Nunna.	30 th June 2018

Conferences Attended by the Faculty IN THE PERIOD OF 2015 -2016

S.No	NAME	PROGRAMME	PLACE	PERIOD
1	Mr K.Ravi Kumar	2016 International Conference on Recent Trends in Electronics, Information & communication Technology(RTEICT-2016) “ Enhancement of noisy speech using sub-EGE Band harmonic regeneration and speech presence uncertainty Estimator ”	Sri Venkateshwara college of engineering, Bengaluru	20 th To 21 th May 2016
2	Mr G.L.N.Murthy	International conference on Intelligent Systems and Control “ Slice Specific Atlas Independent Hippocampus segmentation using simple labeling ”	Karpagam college of engineering, Coimbatore	7 th to 8 th January 2016
3	Mr G.V.Hari prasad	13 th International conference on Electromagnetic Interference and compatibility” Performance Analysis of feature selection methods for feature extracted PCG signals ”	Andhra university, Visakapatnam	22 nd to 23 rd July 2015
4.	E.V.KrishnaRao	International conference on innovation embedded and communication systems “ Latent fingerprint matching by combining multiple score computations ”	Karpagam College of Engineering, coimbatore	2016
5	E.V.KrishnaRao	National conference on innovations in information technology.” Latent fingerprintmatching by orientation field estimation ”	Tamilnadu	2016

Books/Book Chapters Published in the period of 2023-24

Title of Book	Name of the Authors	Name of the Publisher with Address	ISBN Number	Publication Date
Seizure Detection and Classification with EEG Signals	Sateesh Kumar Reddy C, Poornaiah Billa	IIP Publisher	978-93-6252-491-1	May 2023

Books/Book Chapters Published in the period of 2022-23

S. No.	Authors	Title of the Book	Publisher	Published Date	ISBN
1.	Rajewari, N. Vinod Kumar, K.M. Suresh, N. Sai umar, K. Girija Sravani	IoT-Based Smart Home Security Alert System for Continuous supervision	Wiley Online Library	23-06-2023	9781119910497
2.	B. Ramesh Reddy, K. Bhargav Manikanta, P.V.V.N.S. Jaya Sai, R. Mohan Candra, M. Greeshma Vyas, K. Girija Sravani	Anti-Theft Technology of Museum Cultural Relics using RFID technology (127-138)	Wiley Online Library	23-06-2023	9781119910497
3.	T. Anil Raju, K. Srihari Ressay, Sk. Arifulla Rabbani, G. Suresh, K. Saikumar Reddy, K. Girija Sravani	Tumor Detection using Morphological Segmentation with DSP processor TMS320C6748 (185-194)	Wiley Online Library	23-06-2023	9781119910497

4.	VenkateswaraRao.P, V. Hymavathi, L. Pavan Kumar, Ch. UgandharVenkataSai Krishna	Smart Watch for panic alert, , Part of Smart Innovation, Systems and Technologies, Intelligent Manufacturing and Energy Sustainability, ICIMES 2022, 571-580	Springer	21-06-2023	978-981-19-8497-6
5.	M. Sambasiva Reddy	Part of Smart Innovation, Systems and Technologies book series, in Intelligent Manufacturing and Energy Sustainability “Fire and Gas Detection System for Home and Industry Safety using ARM7 through ESP8266 Wi-Fi Module”	Springer	01-06-2023	978-981-19-8497-6
6.	Dr.E.V.KrishnaRao	Lecture Notes in Electrical Engineering Series, Advances in Signal Processing, Embedded Systems and IoT, Raspberry Pi Alive Human Detection Robot using PIR Sensor	Springer	24-05-2023	978-981-19-8865-3
7.	V.V. Rama Krishna	Book Series: Advances in parallel Computing Ebook: Advances in parallel Computing Algorithms, Tools and Paradigms, Chapter: Fire Detection using Deep Convolution Neural Network in Video Streams	IOS Press	10-11-2022	978-1-64368-314-0

8.	V.V. Rama Krishna	Book Series: Advances in parallel Computing Algorithms, Tools and Paradigms, Smart Surveillance System using Fae and Optical Character Recognition for Secure Environment	IOS Press	10-11-2022	978-1-64368-314-0
9.	G.L.N. Murthy, Rajesh BabuNemani, M.Samba Siva Reddy, M.K. Lingamurthy	Cognitive Computing Models in Communication Systems / Review on Detection of	Wiely online Library	07-10-2022	9781119865070
		Neuromuscular Disorders using Electromyography			

Books/Book Chapters Published in the period of 2021-22

Title of Book	Name of the Authors	Name of the Publisher with Address	ISBN Number	Publication Date
Speech enhancement using statistical based and NMF approaches	Dr. Ravi Kumar Kandagatla	Lambert Academic Publishing, Germany	978-620-3-86086-3	14-05-2021

Patents Published in the period 2023-2024

S. No	Patent Title	Applicants/ Inventors	Patent No.	Published date
1.	Deep Learning for privacy preserving medical diagnosis in Indian healthcare	Dr. Pradyumna Singh Shekhawat Mr. Dhupam Arun Kumar, Dr.M.S.S.S. Srinivas Dr. Chanamala Vijay Dr. B.V.N.R.Siva Kumar Dr. Sabu George Bhupendra Singh Dr. Rovin Tiwari	202411044823	21-06-2024
2.	A Novel System for identifying Cyber Security Attacks using Artificial Intelligence	Mr. Kuchinad Vaishak, Mrs.P R Rajakumari, Mr. Jaswant Narendra Saxena, Mr. Ananya Nagraj, Mrs. Pavani Kollamudi , Mrs.C.Radhika, Dr.K.G.S.Venkatesan, Mr.D.Anandan, Dr.S.Vinod Kumar	202341069360 A	24-11-2023

Patents Published in the period 2022-2023

S.No.	Patent Title	Applicants/ Inventors	Patent No.	Published date
1.	T-Slits on Circular Patch Antenna System and Method to Establish IoT Applications	Applicant: Lakireddy Bali Reddy College of Engineering (Autonomous), Ede Venkata Krishna Rao Name of the inventor: Ede Venkata Krishna Rao Gadameedi Dinesh Kumar, BhukyaSrinivasarao U.V.RatnaKumari M. Sree Ram Kiran Kethavath Kumar Nayak	202241075829	06-01-2023
2.	A fully automated vehicle control sytem using on chip technology	Applicant: Lakireddy Bali Reddy College of Engineering (Autonomous), Dr.G.L.N. Murthy, Mr.M.K.Lingamurthy, Mr.M.Samba Siva Reddy	202341002405	202341002403 A
3.	A Tide Wave Energy Harvester Using The Piezoelectric Unimorph Cantilever Beam	Lakireddy Bali Redddy College Of Engineering, Dr.T.Satyanarayana, Dr.E.V. Krishna Rao , Dr.RambabuBusi, Dr. B. Poornaiah	202241053891	30-09-2022
		Poornaiah		

4.	Computer aided diagnosis system for cancer histology images using discriminative patches based on cluster and deep learning	Mr. G. Vijay Kumar Mr. P. Murali Krishna Mr. U. Dhanunjaya Mr. P. R. Rajesh Kumar Mrs.EarliManemma Dr.AdhluriPhanindra Mrs.PavaniKollamudi Mrs.C. Nagamani Mr.Adepu Rajesh Mr.Satyabarata Jenna	202241068607	23-12-2022
5.	Hand Gesture Recognition System using Machine Learning Algorithm for Physically Challenged People	Lakireddy Bali Reddy college of Engineering (Autonomous), Dr. G. Srinivasulu, Dr. E.V. Krishna Rao, Dr.Y. Amar Babu, Dr.T. Satyanarayana	202241075342	30-12-2022

Patents Published in the period 2021-2022

S.No.	Patent Title	Applicants/ Inventors	Patent No.	Published date
1.	Automated Agriculture system based on Bluetooth technology	Tella Anil Raju, K.Sowmya, M. Siva Rama Krishna Reddy, S.K. Imran, T. Amar Babu, B. Rajeswari, Sunil Babu, T Vijay Rajeev	2021104928	01-06-2022
2.	A method for efficient optimization of photovoltaic strings for maximum power output	Lakireddy Bali Reddy College of Engineering, T. Naga Durga, Dr.E.V. Krishna Rao	202241007411	18-02-2022
3.	A System and Method for Managing Micronutrients and protection of crops from excess water	Lakireddy Bali Reddy College of Engineering, Phaneendra Kanakamedala, Dr.Annapareddy V N Reddy Dr.E.V. Krishna Rao	202241007512	18-02-2022

4.	A System based on Digital Image Processing for utilizing differential Image Intensity Determination and Method Thereof	Jitendra Pramod Sonaware, Gajjala Savithri, Neelima, Altaf C, Anilkumar Gona, Utpal Chandra, Prof.Seshaiah M, Dr. Srishal Math, Pavani Kollamudi, Dr.K.Srinivasa Rao	202121059115	24-12-2021
5.	Neural Network for Real Time Speech Enhancement for Hearing Impaired	Dr. Manaswini Burra, Dr.V.Sunny Dayal, Dr.N.V.Rajasekhar, Dr.K.Ravi Kumar	202141053429	03-12-2021
6.	Development of Multi-Sensor Smart Robot for Intelligent border Security Surveillance System.	Dr. Yarrapragada K S S Rao, Mr Ronald Chiwariro, D. Nithin H S, Dr.B. Somasundaram Dr. Pal Pandian P Dr Ivan Sunit Rout, Mr. Ramashis Banerjee, Dr. Mohammed Imran, Dr.Buddesab, Dr. K.Ravi Kumar Kandagatla, Mr. A S Rajesh, Mr. Mahesh Kumar A S	202141033795	27-07-2021

Patents Published in the period 2020-2021

Title of the Patent	Applicant/ Inventor	Status	Application Number	Date	Issuing Authority
Image Contrast Enhancement System with Hybrid Binary Particle Swarm Optimization and Flower Pollination Algorithm	Mr. M. Samba Siva Reddy, Mr. Mr. P. Venkateswara Rao, Mr. Ch. Siva Rama Krishna	Published	202131018752	14-05-2021	India Patent Office

Proposals Submitted

Academic Year	Name of The Faculty	Title of Proposal	Scheme / Agency	Amount
2023-24	Dr.G.L.N.Murthy	User Generated Video Content Monitoring for Online Platforms	NA	8,20,000 /-
2023-24	Dr.K.Ravi Kumar	Artificial Intelligence based speech enhancement techniques for hearing aids	NA	39,95,034
2021-22	Dr.E.V. Krishna Rao	Design Thinking: From Insights to Viability for Engineers	AICTE-ATAL FDP	93,000 /-
2020-21	Dr.E.V.Krishna Rao	Design Thinking: From Insights to Viability for Engineers	AICTE-ATAL FDP	--
	Dr. G.L.N. Murthy Dr. E.V. Krishna Rao	Electro spinning of Polydimethylsiloxane membranes for developing accurate wearable flexible device to measure heart rate, pulse rate, oxygen levels	Biomedical Device and Technology Development (DST)	55,30,950/-
	Smt. B. Rajeswari Mr. T. Anil Raju	Empowerment and Economic upliftment of rural SC women through computerized embroidery craft work, optimized material cutting and stitching using Artificial Intelligence.	STI Hub for SC Community (DST)	22,48,450 /-
2019-20	Smt B. Rajeswari, Dr. G. L. N. Murthy	Development of machine learning framework for automatic ischemic stroke lesion segmentation in magnetic resonance perfusion images.	DST (Women Scientist)	30,41,000 /-
	Dr G.L.N.Murthy	Analysis of Electroencephalogram towards developing brain computer interface for assistance to physically disabled	AICTE	11,50,000 /-
	Dr. E.V Krishna Rao	FIST 2020	DST	1,00,00.926 /-

	Dr. E.V Krishna Rao	AICTE FDP Technical Leadership Training Program	AICTE	7,00,000/-
2018-19	Dr. Y. V. S. Raman, Dr. E. V. Krishna Rao, Dr. A. Narendra Babu	Exploring Artificial Intelligence based human Emotions estimation tools on assisting physically challenged and elderly people	DST- CRG	45,13,900 /-
	Dr. M. Madhavi	Development of Novel Adaptive algorithms for Bio-Medical Applications	WOS-A DST	25,26,300/-
	Mr. T. Anil Raju	To study about disorganised speech Schizophrenia using NSM	DST- Cognitive	36,94,000/-
2015-16	Dr. E.V Krishna Rao	Interference reduction in Multi-stage Multi-user detection for DS-CDMA systems over fading channels using diversity techniques	UGC-Minor	5,00,000/-

Research Colloquiums

Academic Year (2022-23)			
S.No	Date	Faculty Name	Title of Presentation
1.	24.03.2023	Dr.K.Ravi Kumar	Research Trends in Hearing aid developments
2.	03.03.2023	Smt.B. Rajeswari	Basics on Wind Profile, Signal and Data Processing
3.	03.02.2023	Dr.G.L.N.Murthy	Deep Learning in Computer Vision: An end-to-end pipeline
4.	03.02.2023	Mr.M. SambasivaReddy	Python and MATLAB/Octave Based winter Training School on “Massive MIMO, mmWave MIMO and Spatial Modulation”
5.	30.09.2022	Dr.E.V.Krishna Rao	How to prepare research proposals for funding agencies?
6.	30.09.2022	Dr.G.L.N.Murthy	Image annotation for computer vision in UAV images.
7.	08.09.2022	Dr.K.Ravi Kumar	Insight into Convolutional Neural Network
8.	08.09.2022	Mr.T.Anil Raju	Enhanced Learning techniques for segmenting Ischemic Stroke Lesions in Brain Magnetic Resonance Perfusion Images Using Artificial Intelligence
Academic Year (2021-22)			
S.No	Date	Faculty Name	Title of Presentation
1.	16.06.2022	Dr.G.L.N.Murthy	Image Annotation for computer vision in UAV images
2.	24.03.2022	Mr.V.V.Ramakrishna	Signal Processing and AI frameworks for brain connectivity driven early diagnosis
3.	24.03.2022	Mr.T.Anil Raju	Signal Processing and AI frameworks for brain connectivity driven early diagnosis
Academic Year (2019-20)			

S.No	Date	Faculty Name	Title of Presentation
1.	28-02-2020	Mr.M.Siva Sankara Rao	Advances in Signal and Image Processing
2.	28-02-2020	Smt.B. Rajeswari	Walsh-Ordered Hadamard Time-Encoded Pseudo continuous ASL
3.	28-02-2020	Mr.M. Sambasiva Reddy	Intracranial Hemorrhage Detection using Deep Learning
4.	25-01-2020	Mr.V.V.Ramakrishna	DSP Using LABVIEW
5.	25-01-2020	Mr.T.Anil Raju	Analytical comprehension of Arterial Input Function in Perfusion MRI
6.	28-09-2019	Mr.M.K. Lingamurthy	Review on Speech Recognition Algorithms
7.	28-09-2019	Mr.M. Sambasiva Reddy	Applications of Multi rate Signal Processing
8.	07-09-2019	Mr.P. Venkateswara Rao	An Integrated Acoustic Echo and Noise Cancellation system using Wavelet Thresholding of Multitaper system
9.	07-09-2019	Mr.K.Ravi Kumar	Electronic Counter Measures
10.	17-08-2019	Mr.M.Siva Sankara Rao	Basics on Wind Profile, Signal and Data Processing
11.	17-08-2019	Smt.B. Rajeswari	Arterial Input Function Measurement
12.	20-07-2019	Dr.E.V. Krishna Rao	Identifying Innovative Ideas for submitting Research Proposals
13.	20-07-2019	Mr.V.V.Ramakrishna	Soft Computing Techniques in Signal Processing
14.	29-06-2019	Dr.E.V.Krishna Rao	Identifying Innovative Ideas for submitting Research Proposals
15.	29-06-2019	Dr.G.L.N Murthy	Forensic Image Processing
16.	29-06-2019	Mr.T.Anil Raju	A Spatio-Temporal Deconvolution Method to Improve Perfusion CT Qualification

Academic Year (2018-19)

1.	22-09-2018	Dr.G.Srinivasa Rao	RCSPA Based MA Detection.
2.	22-09-2018	Mr.P.Venkateswara Rao	Adaptive Echo Canceller Design Using Modified LMS Algorithm.
3.	01-09-2018	Mr.V.V.Rama Krishna	Digital Signal Processors.
4.	01-09-2018	Mr.G.L.N.Murthy	Image Analysis In Medical Applications.
5.	01-09-2018	Mr.S.K.Masthan Sharif	Echo: Its Effects and Its Removal Methods.
6.	13-08-2018	Dr.E.V.Krishna Rao	A Talk on Motivation Towards Research.
7.	13-08-2018	Prof.B.Ramesh Reddy	Applications On Fourier Transforms.
8.	13-08-2018	Mr.M.Siva Sankara Rao	Atmospheric Variation Based on Processing Of MST Radar.
9.	21-07-2018	Dr.Madhavi	Filtering Noise in ICG Signals.
10.	21-07-2018	Mr.T.Anil Raju	Fourier Transform Principles in NMR Imaging.
11.	21-08-2018	Smt.B.Rajeswari	Artifacts In Medical Imaging.

Academic Year (2017-18)

1.	31-03-2018	Smt.B.Rajeswari	Biorthogonal Transformation Techniques In Signal Processing.
2.	17-03-2018	Mr.M.K.Linga Murthy	Shape Analysis of Brain Tissue Using MRI Images.
3.	03-03-2018	Mr. G.L.N.Murthy	Image Mosaicing In Image Processing.

4.	17-02-2018	Mr.T.Anil Raju	Wavelets In Image Compression.
5.	03-02-2018	Mr.S.K.Masthan Shareif	Machine Learning Techniques for Detection And Classification.
6.	27-01-2018	Mr.V.V.Rama Krishna	Application Of Novel Adaptive Filtering.
7.	30-12-2017	Dr.M.Madhavi	The Effect Of Exponential On The SNR Improvement Of Mst Radar Signals
8.	16-12-2017	Dr.G.Srinivasa Rao	Tensor Decomposition For Signal Processing And Machine Learning.
9.	25-10-2017	Mr.K.Ravi Kumar	Speech Enhancement Using MMSE Estimation Under Phase Uncertainty.
10.	18-08-2017	Prof.B.Ramesh Reddy	Theory Of Detection and Estimation In Signal Processing.

Academic Year (2016-17)

1.	05-03-2017	Mr.V.V.Rama Krishna	Biomedical Signal Analysis.
2.	17-01-2017	Dr.G.Sinivasa Rao	Signal Compression Techniques.
3.	15-09-2016	Mr.G.L.N.Murthy	Error Minimization in Brain Tissue Extractionfor Ti Weighted MR Images.
4.	01-07-16	Dr.E.V.Krishna Rao	High-Resolution Computed Tomography (HRCT) Images.

Academic Year (2015-16)

1.	30-04-2016	Dr.M.Suman	Importance Of Transformation Techniques in Signal Processing
2.	07-02-2016	Dr.E.V.Krishna Rao	Automatic Traffic Surveillance Using Video Processing.
3.	04-10-2015	Dr.K.Naga Prakash	Wavelet Transforms in Image Compression.
4.	16-08-2015	Mr.M.K.Linga Murthy	Speaker Identification

Students Projects

Academic Year:2023-24			
S.No	Students	Project Guide	Title of Project
1.	20761A0443	Mr.T.Anil Raju	Brain Tumor Segmentation Using U-Net Architecture and Dice Coefficient
	20761A0417		
	20761A0452		

2.	20761A0426	Ms.B.Rajeswari	Semantic segmentation using SOTA DNNS
	20761A0412		
	20761A0427		
3.	20765A0405	Ms.T.Kalpana	A Hybrid Spiking Convolutional Neural Network For Brain Tumor Classification
	20761A0442		
	20761A0457		
4.	20761A0488	Mr.K.V.Ashok	Automated kidney stone detection in abdominal CT scans images using MATLAB.
	20761A04B6		
	20761A0467		
5.	20761A0499	Mr.M.K.Lingamurthy	Emotion detection using VGS model in deep learning
	20765A0411		
	20761A04B3		
6.	20761A04I9	Mr.T.Anil Raju	Lung cancer prediction
	20761A04G7		
	21765A0415		
7.	20761A04G8	Mr.P.James Vijay	NeuroMedAssist: An Intelligent Brain Tumor Classification System Using Deep Learning
	20761A04E0		
	20761A04I1		
8.	20761A0430	Dr.A.Narendra Babu	Deep learning based cyclone intensity estimation using Insat3D IR Imagery
	20761A0418		
	20761A04E7		
9.	21765A0406	Dr.E.V.Krishna Rao	Web-interfaced diagnosis system of diabetes prediction using machine learning algorithms.
	20761A04D2		
	20761A04E6		
10.	20761A0422	Ms.B.Rajeswari	Real time object detection and instance segmentation using YOLOv7
	20761A04E2		
	20761A0414		
11.	21765A0407	Mr.M.Sambasiva Reddy	Predicting Traffic Flow in Real Time Using Machine Learning
	20761A0444		
	20761A04I5		
12.	20761A04J0	Dr.G.L.N.Murthy	LSTM and CNN based speech emotion recognition
	20761A04F8		
	20761A04I0		
13.	20761A0425	Dr.B.Poornaiah	Efficient detection of lung diseases using different deep learning and machine learning algorithms
	20761A04G9		
	20761A04G5		
14.	20761A0463	Dr.E.V.Krishna Rao	Adaptive and Iterative Enhancement of DnCNN for versatile Image Denoising
	20761A0424		
	20761A0492		
	20761A0421		
15.	20761A0402	Dr.G.L.N.Murthy	Epilepsy detection using transfer learning
	20761A0438		
	20761A0433		
16.	20761A0410	Dr.K.Ravi Kumar	Sea Clutter Suppression using Neural Networks
	20761A0432		
	20761A0456		

Academic Year:2022-23			
S.No	Students	Project Guide	Title of Project
1.	19761A0418	Dr.E.V.Krishna Rao	Design and analysis of CMOs XOR gate and its layout in 90nm technology
	19761A0432		
	19761A0408		
	19761A0415		
2.	19761A0438	Dr.K.Ravi Kumar	Optimizing design of rectangular microstrip antenna
	19761A0409		
	19761A0434		
3.	19761A0460	Dr.V.Ravi Sekhara Reddy	Design of wideband compact branch line balun with harmonic suppressions for wireless communication
	19761A0462		
	19761A0428		
4.	19761A0452	Mr.T.AnilRaju	Detection of breast cancer using data augmentation and transfer learning based on deep learning model
	19761A0459		
	19761A0457		
5.	19761A0401	Mr.M.Siva Sankara Rao	A Novel Hybrid Electronic Voting Machine using IOT
	19761A0431		
	19761A0429		
6.	19761A0402	Mr. M. Sambasiva Reddy	Water Quality Monitoring and Purification System
	19761A0447		
	19761A0441		
7.	19761A04B9	Prof.B.Ramesh Reddy	Development of a News Detector using Machine Learning Approaches
	19761A04B0		
	20765A0408		
	19761A0470		
8.	19761A04C1	Dr.G.L.N. Murthy	Weed Detection and Removal based on Image Processing
	19761A0468		
	19761A0475		
9.	19761A0497	Mr.V.V.Rama Krishna	Mathematical Modelling and Simulation of Electric Vehicle using Matlab/Simulink
	19761A0469		
	19761A04A9		
10.	19761A0499	Mr.M.K.Lingamurthy	EEG Signal Analysis And Classification
	19761A04B4		
	19761A0473		
11.	19761A04C0	Mr.M.Sivasankara Rao	Wireless Electronics for Soldier Security
	19761A04B5		
	19761A0484		
12.	19761A04B2	Mr.P.Venkateswara Rao	IoT based Gas Leakage Monitoring System using FPGA
	19761A04C5		
	19761A0493		
13.	19761A0465	Mr.P.James Vijay	Development of IOT based Air Pollution Monitoring System with Enabled GSM Service
	19761A0478		
	19761A04C9		
14.	19761A04G7	Dr.E.V. Krishna Rao	Detection Of Abandoned And Stolen Objects With Specifying Ghost Region
	19761A04H0		
	19761A04F7		
15.	19761A04D2	Prof.B.Ramesh Reddy	Design And Analysis Of EXNOR Gate
	19761A04D9		

	20765A0414		Using 130nm Technology
16.	19761A04I8	Dr.G.L.N.Murthy	A Deep Learning Based Framework For Image Dehazing
	20765A0416		
	19761A04F3		
17.	19761A04G5	Dr.K.Ravi Kumar	Analysis Of Statistical Estimators And Neural Network Approaches For Speech Enhancement
	19761A04F9		
	19761A04D0		
18.	19761A04H9	Mr.V.V.Rama Krishna	Iot Based Smart Safety Device wth GPS Tracking And Alerts For Women And Children
	19761A04G8		
	19761A04I6		
19.	19761A04G2	Mr.T.Anil Raju	Ischemic Stroke Segmentation In Brain Perfusion MRI using 3-D Convolution Neural Network
	19761A04J3		
	19761A04F0		
20.	19761A04I7	Mr.M.K.Lingamurthy	Covid And Lung Cancer Detection Using Image Processing Algorithms
	19761A04I4		
	19761A04E9		
21.	19761A04G9	Mrs.B.Rajeswari	Design And Analysis of Full Adder Using 45nm Technology
	19761A04I2		
	19761A04H5		
22.	19761A04E4	Mr.M.Sambasiva Reddy	Arm7 Based Accident Detection and Vehicle Tracking
	19761A04E8		
	19761A04F8		
	19761A04J1		

Academic Year 2021-22			
S.No.	Regd. No.s	Project Work Title	Project Guide
1.	19765A0401	Facial Emotion Recognition using Convolution Neural Networks(CNN)	Prof. B. Ramesh Reddy
	18761A0447		
	18761A0411		
2.	18761A0456	Performance enhancement of downlink NOMA using improved GSSK	Dr. G.L.N.Murthy
	18761A0419		
	18761A0417		
	18761A0409		
3.	18761A0449	IOT framework for monitoring the condition of the roads	Dr. K. Ravi Kumar
	18761A0415		
	18761A0425		
	19765A0405		
4.	18761A0442	EEG signals analysis for Human stress monitoring by using LABVIEW	Mr.V.V.Rama Krishna
	18761A0422		
	18761A0405		
	18761A0406		

5.	18761A0440	Hand written digit recognition using Deep neural network	Mr. T.Anil Raju
	19765A0404		
	18761A0426		
	18761A0432		
6.	18761A0445	IOT based indoor and outdoor health safety monitoring system	Mr. M.Sivasankara Rao
	18761A0410		
	18761A0457		
	18761A0408		
7.	18761A0451	Automatic health monitoring system with GPS tracking	Smt. B. Rajeswari
	18761A0434		
	19765A0403		

8.	19765A0406	Smart watch for panic alert	Mr. P. Venkateswara Rao
	18761A0427		
	19765A0402		
9.	18761A0446	A deep learning based crop , fertilizer recommendation system with leaf disease prediction	Mr. P. James Vijay
	18761A0453		
	18761A0448		
10.	18761A04A6	GUI based Automated authentication system using face recognition with face mask detection	Dr. G.L.N.Murthy
	18761A04A4		
	18761A04B5		
	18761A04B0		
11.	18761A0499	Implementation and analysis of Image steganography using Convolution Networks	Mr. M.K. Linga Murthy
	18761A04A8		
	18761A0481		
12.	18761A0492	Fire and gas detection system for home and industry safety using ARM7 through ESP 8266 wi-fi module	Mr. M. Sambasiva Reddy
	18761A0491		
	18761A0493		
13.	18761A04A2	Autonomous vehicle control system based on Driver condition monitoring	Dr.G.L.N. Murthy
	18761A04A7		
	18761A0469		
14.	18761A04B8	Theft control, accident detection and vehicle positioning using ARM 7 LPC 2148 Microcontroller	Mr. A. Uday Kumar
	18761A0467		
	18761A0470		
15.	18761A04C4	Raspberry Pi alive Human Detection Robot Using PIR Sensor	Dr.E.V. Krishna Rao
	18761A04D9		
	18761A04G0		
	18761A04F4		
16.	18761A04D1	Embedded Smart ATM Card	Prof. B. Ramesh Reddy
	18761A04C9		
	18761A04G1		
	18761A04C6		
17.	18761A04E5	Object detection mechanism using deep CNN model	Dr. K. Ravi Kumar
	18761A04B9		
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S.No	REGD. NO.S	PROJECT WORK TITLE	Guide Name
1.	17761A0418	Identification Of Muscle Disorders Using Electromyography	Dr.G.L.N.Murthy
	18765A0406		
	18765A0408		
	18765A0405		
2.	17761A0436	Smart Student Register Using Face Recognition	Mr.V.V.Ram a Krishna
	17761A0408		
	18765A0401		
	18765A0404		
3.	17761A0414	Real Time Face Mask Detection and Thermal Screening with Audio Response for Covid 19	Mr.M.Siva Sankara Rao
	17761A0447		
	17761A0442		
	17761A0432		
4.	17761A0438	Investigation On Noise Estimation and Speech Enhancement Approaches	Dr.K.Ravi Kumar
	17761A0449		
	18765A0409		
	17761A0428		
5.	17761A0497	Intelligent Traffic Control System Using Arm7 Controller and Image Processing Techniques	Dr.E.V.Krishna Rao
	17761A0478		
	17761A0487		
	17761A04A5		
6.	17761A04G7	Two level algorithm for detection of voice pathology using random forest with reduced feature dimension	Dr.G.L.N.Murthy
	17761A04G6		
	17761A04C9		
	18765A0427		
7.	17761A04G0	Smart sensor network based atm management system using LabVIEW	Mr.V.V.Rama Krishna
	17761A04D7		
	17761A04D3		
	17761A04E4		
8.	17761A04E7	Tumour detection using image segmentation with DSP processor	Mr.T.Anil Raju
	17761A04G9		
	17761A04D8		
	17761A04E6		
9.	17761A04E8	Low cost intelligent smart device for visually challenged persons	Mr.M.K.Linga Murthy
	17761A04F2		
	17761A04D2		
	17761A04G2		
10.	17761A04D0	Advanced tracking system for alive human detection	Mr.M.Sambasiva Reddy
	17761A04D1		
	17761A04E3		