



Atria Institute of Technology

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**DEPARTMENT OF ELECTRONICS AND COMMUNICATION
ENGINEERING**

Research Journal Publications by Faculty – CAY (2020-21)

Sl. No.	Faculty Name	Name of the Paper	Journal	Publication Details	ISBN/ISSN	Year of Publication
1.	Jayshree B, Deekshith, Harshith, Spoorthi S P	Design and Implementation of a Reconfigurable Hardware for Source Encoding Algorithms	International Research Journal of Engineering and Technology (IRJET)	Volume: 07 Issue: 06	ISSN:2395-0056 ISSN:2395-0072	June 2020
2.	Arun Balodi , RS Anand, ML Dewal, Anurag Rawat	Severity Analysis of Mitral Regurgitation Using Discrete Wavelet Transform	IETE Journal of Research	https://doi.org/10.1080/03772063.2020.1814880	ISSN: 0377-2063 ISSN: 0974-780X	September 2020
3.	Varun Srivastava, Shilpa Gupta, Gopal Chaudhary, Arun Balodi , Manju Khari	An enhanced texture-based feature extraction approach for classification of biomedical images of CT-	International Journal of Interactive Multimedia and Artificial intelligence	DOI: 10.9781/ijimai.2020.11.003	ISSN 1989 - 1660	November 2020

		Scan of Lungs				
4	Rakhi S, Rushali Povamma,Varshitha R,Sahana SB, Swathi P	Smart Energy Meter using Lo Ra	International Journal of Advanced Science and Technology	Vol 29,No.10,	4233-4242	October 2020
5	Tejaswini G, Vaishnavi K, Smita C P, Sundari T	Wearable Health monitoring System for Athletes: A Survey	International Research Journal Of Engineering and Technology (IRJET)	Volume: 08, Issue: 04	2395-0056	April, 2020

Research Conference Publications by Faculty- CAY (2020-21)

Sl. No.	Faculty Name	Name of the Paper	Conference Details	Date & Place of Conference	DOI/ISBN number
1.	Roshan Kumar, Mohamed Ismail, Wei Zhao, Mohammad Noori, Arvind R. Yadav, Shengbo Chen, Vikash Singh, Wael A. Altabey, Ahmad I. H. Silik, Gaurav Kumar, Jayendra Kumar, Arun Balodi	Damage Detection of Wind Turbine System Based on Signal Processing Approach : A critical review	IEEE International Conference on Electrical, Electronics, Computer Communication, Mechanical and Computing (EECCMC),	Jan 2021	https://doi.org/10.1007/s10098-020-02003-w Electronic ISSN 1618-9558 Print ISSN 1618-954X

2	Prasuna VNP	WSN based Precision agriculture through ESP module	2 nd International Conference on Frontiers of Engineering Inventions- Post Covid 19 priorities (ICFEI-II-2021)	Jan 2021	https://easychair.org/account/signin_timeout?l=O8SUBcaFGxLYPT6ETmmzJa#
3	Ambar Bajpai, Arun Balodi	Role of 6G Networks: Use Cases and Research Directions	International Conference IEEE Bangalore Humanitarian Technology Conference (B-HTC), Vijaypur, India,	Oct 2020	doi: 10.1109/B-HTC50970.2020.9298017
4	Rafee Ahsan, Pruk Sasithong, Amir Parnianifard, L. Wuttisittikulij, Ambar Bajpai , Muhammad Saadi, Sushank Chaudhary, Sunita Khichar. Pisit Vanichchanunt, Irfan Ullah	Comparative Analysis of Successive Cancellation and List Decoders Using Distinct Combinations of LLRs for Polar Codes	The 3rd International West Asian Symposium on Optical and Millimeter-wave Wireless Communication (WASOWC 2020),	24-25 Nov., 2020 Tehran, Iran	WASOWC Website & Research Scholar
5	Rafee Al Ahsan; Sunita Khichar; Watid Phakphisut; Lunchakorn Wuttisittikulij; Audsadang Ngamjob; Pruk Sasithong; Ambar Bajpai Muhammad Saadi Amir Parnianifard Irfan Ullah May Pyone Han Wai Phyo Pisit Vanichchanunt	A GUI based Self-learning Tool for Polar Codes using Successive Cancellation and List Decoders	IEEE 4 th International Conference on Advanced Information Technologies (ICAIT 2020)	Yangon, Myanmar, 4-5 Nov., 2020	10.1109/ICAIT51105.2020.9261811

6	PM Shankarappa, Ambar Bajpai	Automatic Traffic Density Control System With Wireless Speed Limit Notification	IEEE 11 th Computing and Communication Workshop and Conference (CCWC-2021)	Las Vegas, USA, 27-30 January, 2021	doi: 10.1109/CCWC51732.2021.9376053
7	Sameera P , Chetan, Chandan C, Chandrika J	Snake BoT Designs: A Survey	National Conference on Information and Communication Technology, NHCE, Bangalore	23 December 2020	Certificate

Research Journal Publications by Faculty- CAYm1 (2019-20)

Sl. No.	Faculty Name	Name of the Paper	Journal	Publication Details	ISSN No/	Date of Publication
1	Roshan Kumar , Mohamed Ismail , Wei Zhao , Mohammad Noori , Arvind R. Yadav , Shengbo Chen , Vikash Singh , Wael A. Altabey , Ahmad I. H. Silik , Gaurav Kumar , Jayendra Kumar & Arun Balodi	Damage Detection of Wind Turbine System Based on Signal Processing Approach : A critical review	Clean Technologies and Environmental Policy (SCI)	Vol. 23, Issue 01	1618-9558	02 Jan 2021

2	Arun Balodi , R. S. Anand , M. L. Dewal & Anurag Rawat	Comparison of color spaces for the severity analysis of mitral regurgitation	International Journal of Information Technology, Springer	Vol. 11, Issue 7	2511-2112	24 July 2019
3	Bhargav KR, Abhijith R Hegde, Dhruthi Sri Rukmini KR, Tirumalesh V A, Ambar Bajpai ,	Design and Simulation of Microstrip Antenna	International Research Journal of Engineering and Technology	Volume-7 Issue-3	2395-0056	Mar 2020
4	Vasanthi S, Dr. K V Narayanaswamy , Dr. K Karibasappa	FPGA and MATLAB Based Solution for Retinal Exudate Detection	International Journal of Recent Technology and Engineering (IJRTE)	Volume-8 Issue-3	2277-3878,	3/6/2020
5	Vasanthi S, Dr. K V Narayanaswamy , Dr. K Karibasappa	Hard Exudate Extraction from Funus Images using Watershed transform	Indonesian Journal of Electrical Engineering and Informatics	Volume-7 Issue-3	2089-3272 Doi. 10.11591/ijeei.v7i3.775	Sept 2019
6	Sampada H K , Karthik G S, Charan, Nihal B S	Voice Controlled Smart Mirror With Raspberry Pi	International Journal of Advance Science and Technology	Vol 29, No.10S	2005-4238	May 2020
7	Karthik C Hegde, Vaddi Naga Padma Prasuna , J Vasudev, Purushotham D J, Rakesh S	Emergency Rescue System Using Lora And GSM: A Review	PARISHODH JOURNAL	Volume-9 Issue-3,	2347-6648	May 2020
8	Manjunath V, Dr. Prasuna Vaddi , Vignesh A, R Sujeeth Raj, Kevin Abraham	Self Balancing Electric Vehicle with Fast Charging System	Science, Technology and Development	Volume-9 Issue-4,	0950-0707	April 2020

9	Mithun ,Prashanth,Rakshith,Ravi, Rakhi S	Road Sign Detection And Recognition-A Survey	International Organization of Scientific Research	Vol. 9, Issue. 5	2250-3021	2019
10.	Kavya, Niveditha,Pranamy,Kiran Kumar, Rakhi S	Protection Of Crops From Rain Water And Generation Of Solar Energy With Embedded System using GSM Technology	International Journal of Engineering Science and Computing	Volume-9 Issue-2	2321-3361	Feb 2019
11	Shalini Vashishta , Nagaraj, Navitha,Pranitha, Mahanta Gowda	Efficient Design of Elliptic Curve Cryptography Based on Montgomery Modular Multiplication	International Journal of Research in Engineering, Science and Managemnt(IJRESM)	Vol 3, Issue 3	ISSN (Online) : 2581- 5792	Feb 2020
12	Sampada H K , Karthik G S, Kankshitha S,Charan C, Nihal BS	Voice Controlled Smart Mirror With Raspberry Pi - Survey	International Journal for Science and Advance Research in Technology	Volume 6, Issue 3	2395-1052	May 2020
13	B.Jayshree, Deekshith, Harshith D, Spoorthi.SP	Design and Implementation of a Reconfigurable Hardware for Source Encoding Algorithms	International Research Journal Of Engineering and Technology(IRJET)	Volume 6, Issue 5	e-ISSN:2395-0056 p- ISSN:2395-0072	May 2020
14	Bhaskar M K , Nikitha Reddy B , Rajatha M C, Rakshitha A , Sagar V	Raspberry Pi Based Smart Cap For Visually Impaired People Using Machine Learning	International Journal for Science and Advance Research in Technology (IJSART)	Volume 6, Issue 3	ISSN [ONLINE]: 2395- 1052	March 2020
15	Akshaya Hari, Ayesha Afnan, Junaid Abbas, Faisal Ahmed Shariff , Ramesh Nuthakki	Speech Enhancement Using Ideal Binary Mask Based on Channel Selection Criteria	International Journal of Research in Engineering, Science and Management,	Volume-3, Issue-1	ISSN (Online): 2581- 5792	Jan 2020

16	Ramesh Nuthakki , Naik D C, A Sreenivasa Murthy	A Literature Survey On Single Channel Speech Enhancement Techniques	International Journal Of Scientific & Technology Research	Volume 9, Issue 03	ISSN 2277-8616	Mar 2020
17	S.U.Lakshmeesh,K.S Karthik ,Nagabhushan Hegde, Ramya C.N	Underwater Communication Using Li-Fi	International Journal Of Research In Engineering,Science And Management,	Volume 3, Issue 03,	ISSN(Online)-2581-5792	March - 2020
18	Y Pushpa , H Yogesh, Syed Faraz, Ranjit Kumar, Shoaib Ulla Khan	Solar Power Water bodies Garbage Collecting Machine using IoT	International Journal of Research in Engineering, Science and Technology	Volume: 3 Issue: 2	eISSN 2581-5792	Feb 2020
19	K Chetan Kumar, Neha N, Kamatham Tejaswini, Namratha V, Sundari Tribhuvanam	Emotion Recognition Based on Facial Expressions and Hand Gesture Using Image Processing-A Survey	International Journal of Advanced Research in Electrical, Electronics and Instrumentation Engineering (IJAREEIE)	Volume 9, Issue 4,	e-ISSN: 2278 – 8875	April 2020
20	Swati Somayaji , Aditya R Dharamshi,Ashutosh Kumar,Dhruv Kumar Kalwar	Traffic Management System – A Comparative Study	Journal of Engineering Research and Applications	Volume 10, Issue 3	2248-9622	Mar 2020

Research Conference Publications by Faculty- CAYm1 (2019-20)

SI. No.	Faculty Name	Name of the Paper	Conference Details	Date & Place of Conference	DOI/ISBN number
1.	Dr. Arun Balodi , R. S. Anand, M. L. Dewal & Anurag Rawat	Comparison of color spaces for the severity analysis of mitral	4th IEEE International Conference on Computing for Sustainable Global Development (INDIACom)	July 2019	DOI: 10.1007/s00531-018-3935-x

		regurgitation			
2	Htain Lynn Aung, Tay Zar Bhone Maung, Pruk Sasithong, Teesid Sreprasurt, Sanika Wijayasekara, Manus Pengnoo, Lunchakorn Wuttisittikulki, Watid Phakphisut, Chairat Phongphanphane, Ambar Bajpai , Muhammad Saadi, Pisit Vanichchanunt	Learning Polar Codes using Python Program with Graphical User Interface	2019 34th International Technical Conference on Circuits/Systems, Computers and Communications (ITC- CSCC)	July-2019	doi: 10.1109/ITC- CSCC.2019.8793295.
3	Nuskit Noomwongs,Prin Phuttaburee,Lattapol Wongpiya,Anurup Skulthai,Muhammad Saadi, Ambar Bajpai ,Tay Zar Bhone Maung, Ye Moe Myint,Irfan Ullah,Lunchakorn Muttisittikulki	Design and Testing of Autonomous Steering System Implemented on a Toyota Ha:mo	International Conference on Electronics, Information, and Communication (ICEIC), at Barcelona, Spain	Jan 2020	DOI: <u>10.1109/ICEIC49074.2020.9051176</u>

4	Dr. Shalabh K Misra	Optimized First-order s-to-z Mapping Function for IIR Filter Designing	20th International Conference on Intelligent System Application to Power Systems (ISAP)	10-14 Dec 2019	Doi: 978-1-7281-3192-4/19
5	Dr. Prasuna VNP	Impact of COVID on Human Values and Technology	E-Conference on Human Values: Post Covid 19	14 th June 2020	TEQIP-3

Research Journal Publications by Faculty- CAYm2 (2018-19)

Sl. No.	Faculty Name	Name of the Paper	Journal	Publication Details	ISSN No/	Date of Publication
1	Ramya C N, Naveen G C, Sucharitha N N, Aiswariya Dev S	Leaf Disease Detecting Using Cnn Technique	International Research Journal Of Engineering And Technology (IRJET)	Vol 6, Issue 5,	eISSN-2395-0056	May 2019
2	Ramya C N, Naveen G C, Sucharitha N N, Aiswariya, Karthik V	Review on Leaf Disease Detecting Using CNN Technique	International journal of (IJSART)	Vol 5, Issue 2,	2395-1052	Feb 2019
3	Ramya C N, Swathi S, Subhashitha D, Tejeswini B M, Varsha V	IOT Based Stroke Rehabilitation System	International Journal Of Engineering Science And Computing(IJESC), Volume 9,issue No 5	Vol 9, Issue 5,	2321-3361`	May 2019

4	Dr. Kishore M, Hinduja R, Hema N G, Feba M Joseph	FUEL DATA MONITORING SYSTEM	International Journal For Science And Advance Research In Technology Vol5, Issue 3	Vol 5, Issue 3,	ISSN 2395-1052	Mar 2019
5	Dr. Kishore M, Archana H, Devika N, Bindushree S, Hemanth Kumar	Google AI Open Images and Object Detection Tracking	International Journal For Science And Advance Research In Technology Volume 5,issue 3	Vol 5, Issue 3,	2395-1052	Mar 2019
6	Vinutha R, Srihari S S, Srinatha K N, Sampath N	A Survey On Design And Control Of Hexapod Robot	International Journal For Science And Advance Research In Technology Volume 5,issue 4	Vol 5, Issue 4 April 2019	2395-1052	April 2019
7	Shobha P C, Raghavendra K, Mallikarjun Wali, Rakesh M, Gyanendra Singh	Mobile Charging System Using Coin And Rfid With Solar Tracking-A Survey	International Journal For Science And Advance Research In Technology Volume 5,issue 2	Vol 5, Issue 2	2395-1052	Feb 2019
8	Vasudeva G, Ishitha Mishra, Aakriti Kumari, Manasa Kv, Punarvasu Rk	Montgomery Multiplier In Galois field	International Journal For Science And Advance Research In Technology, Volume 5,issue 4	Vol 5, Issue 4	2395-1052	April 2019
9	Kavitha S, Meghana R, Megha M, Manasa Ks, Nagalakshmi	IoT Based Medicine Dispenser	International Journal For Science And Advance Research In Technology	Vol 5, Issue 2	2395-1052	Feb 2019

10	Kavitha S , Parina Kn, Neelam R Sattur, Pushpanjali S	Underwater Robot With Wireless Communication (through Zigbee)	International Journal Of Scientific And Engineering Research	Volume 10, Issue 3	2229-5518	March 2019
11	Pushpa Y , Sandhya J, Sadiya Sultana, Shilpa S, Sneha M B	Review Paper On IoT Based Agribot	International Journal For Science And Advance Research In Technology, Volume 5, Issue 4	Vol 5, Issue 4	2395-1052	April 2019
12	Pushpa Y , S B Soumya, Seemab Sultana, S M Shivani, Vamara Velli Kavya	Multifunctional Robots: A Review	International Journal Of Advanced Research, Ideas And Innovations In Technology , Volume 5 , Issue 2	Vol 5, Issue 2	2454- 132X	Feb 2019
13	A Syed Abrar, H N Guru Shambhu, Dheeraj Kumar P H, Swati Somayaji ,	A Review On Driving Event Detection And Driving Style Classification	International Journal Of Engineering And Computing	Vol 9, Issue 3, March 2019	2321-3361	Mar 2019
14	Poornima B , Smruthi P, Shubhamangala K, Swathi P, Shridhar J A	Driverless Car Using Machine Learning – A Review	International Journal For Science And Advance Research In Technology, Volume 5, Issue 3	Vol 5, Issue 3, March 2019	2395-1052	Mar 2019
15	Shridhar J A Shubhamangala K, Smruthi P, Swathi P, Poornima B ,	Design and Development of Driverless Car Using Machine Learning	International Research Journal of Engineering and Technology,	Vol 6, Issue 6	2395-0056	June 2019

16	Ramesh N , Anubhav Singh, Goutham Kumar V, Jayanth Kumar M P, Chetan S G	Speech Enhancement Using Binary Mask Technique	International Journal Of Advance Research, Ideas And Innovation In Technology, Volume 5, Issue 3	Vol 5, Issue 3	2454-132X	Mar 2019
17	K Priya , Rekha H, Ranjitha B, Rachana B,	Review Of Detecting Dengue Fever And Leukemia Cells	International Journal Of Engineering Science And Computing, Volume 9 Issue No.3	Vol. 9, Issue 3	2250-1371	March 2019
18	Dr. Ipshita B M , Kaustubh Bannintha K, Pranav Kumar M P, Risla Fathima P	Variable Digital Filters Used For Hearing Aid Application: A Survey	International Journal Of Engineering Research And Applications (IJERA),	Vol 9 - Issue 4 (Part – 3),	Doi:10.9790/9622-0904032833	April 2019
19	Dr. Ipsita B M , Harshitha D, Bhargav B M	Methodologies In Augmented Reality	International Research Journal Of Engineering And Technology (IRJET),	Volume 6,issue 3	2395-0056	March 2019
20	Rekha B N , Vinod Rao S, Vishwas V, Yadava Shashi Kiran, Sanjay N	Iot Based Bridge Monitoring System And Boat Collision Avoidance Using MATLAB-a Survey	International Journal For Science And Advance Research In Technology	Volume 5,issue 2	2395-1052	Feb 2019
21	Sampada H K , Vikram Pole, Shishir Y G, Sharath Sankar, Vishwanath J H	Review Paper On Navigation, Navigational Systems And Methodologies	International Journal for Science and Advanced Research in Technology (IJSART)	Volume 5, Issue 3	2395-1052	Mar 2019

22	Vasanthi S, Poornimanayak, Anithalakshmi Kc, Sowmya H	Diabetic Retinopathy Detection Using Machine Learning And Texture Features	Ices An International Journal,	Volume 2,issue 11	2566- 932X	Feb 2019
23	Dr. Sanjay Vishwakarma, Yogitha Hegde, Vineeth V, Sunil Gowda,Tasmiya Tazeen	Design and Simulation of Tunable Microstrip Patch Antenna for S- band Applications	International Journal For Science And Advance Research In Technology	Volume 5,issue 3	2395-1052	Mar 2019
24	Rakhi S, Prashanth A, Ravi Kumar G N, Mithun H, Rakshith N	Road Sign Detection And Recognition System- A Review	International Organization Of Scientific Research	Volume 9 , issue 5	2250-3021 Doi:10.97 90	May 2019
25	Rakhi S, Pranamya H R, Kavya N C, Niveditha T S, Kiran Kumar R	Protection Of Crops From The Rain Water and Generation Of Solar Energy with an Embedded System Using GSM Technology	International Journal Of Engineering Science And Computing	Volume 9 , issue 2	2321-3361	Feb 2019
26	Sundari T, Ajith S Bhat, Balaji J, G V Venkat Manoj Raju, Jaysurya B Shetty,	Image Processing Based Traffic Light Control And Emergency Services- A Survey	International Journal Of Engineering And Computing	Vol-9, Issue-4	2250-1371	April 2019

Research Conference Publications by Faculty- CAYm2 (2018-19)

SI. No.	Faculty Name	Name of the Paper	Conference Details	Date & Place of Conference	DOI/ISBN number
1	Dr. Ipsita Biswas Mahapatra	An Algorithm- Architecture Co- designed System for dynamic execution- driven Pre-Silicon Verification	8th IEEE International Symposium on Embedded Computing and System Design (ISED)	13-15 Dec. 2018	<u>DOI:</u> <u>10.1109/ISED.20</u> <u>18.8704038</u>

2	Sampada H K, K R Shobha	Performance Analysis Energy efficient MANETS using modified AODV	Springer International conference on Computer Networks and Inventive Communication Technologies, Hotel Arcadia, Coimbatore	Sept 2018	978-981-10-8680-9 (Print) 978-981-10-8681-6 (Online)
3.	Rakhi S, K R Shobha	Performance Analysis of an Efficient Data-Centric Misbehavior Detection Technique for Vehicular Networks	Springer International conference on Computer Networks and Inventive Communication Technologies, Hotel Arcadia, Coimbatore,	Sept 2018	978-981-10-8680-9 (Print) 978-981-10-8681-6 (Online)
4.	Vasanthi S, KV Narayana Swamy, Karibasappa	Detection of Exudate from Fundus image	Springer Conference on Intelligent Systems Design and Applications. ISDA 2018	April 2019	Print ISBN 978-3-030-16656-4
5.	Vasanthi S, KV Narayana Swamy, Karibasappa	An Embedded System for Watershed Based Hard Exudate Extraction	Springer Conference on Intelligent Systems Design and Applications. ISDA 2018	April 2019	Print ISBN 978-3-030-16656-4
6.	Vasanthi S, Dr. K.V. Narayanaswamy,	Exudate Extraction from Fundus Images	IEEE - 2019 11th International Conference on Knowledge and Smart Technology (KST)	January 2019	2374-314X (P)
7.	Sameera P, Dr Abhay Deshpande	Pomegrante Disease and detection using sensors- A review	IEEE International Conference	10 July 2019	Doi: 978-1-5386-5657-0/18
8.	Dr. Ipshita B, Kaustubh Banninthaya K,	Reconfigurable Warped Digital Filter Architecture For Hearing Aid	4th International Conference On Communication And Electronics Systems (ICCES-2019)	17-19 July 2019	IEEE xplore digital library

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