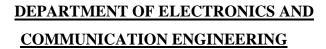


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PROJECT LABORATORY



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROJECT LABORATORY

FACILITIES AND UTILIZATION

S.NO	NAME OF THE FACILITIES	UTILIZATION	PO s and PSO s
1	Pspice, B2Spice	UG students	PO1, PO2, PO3, PO4,
2	Spectrum Apolyzon	PG students	PO5,PO6, PO7, PO9,
2	Spectrum Analyzer	Dagagah Cahalaga	PO10, PO11, PO12
3	DSO	Research Scholars	
		Faculty members	
4	SDR Kit		
5	Code Composer Studio		
6	MATLAB		
7	Xilinx ISE Software		
8	Altera Quartras II		
9	BroadBand wirless Simulator		
10	Sensor kits		
11	Interfacing Kits		



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

FACILITIES

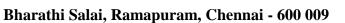
- Sufficient numbers of computers with the following configuration are available for student's project work in the laboratories
- I5 Processor with 2.4GhZ / 3.1 GHz speed
- 2 GB / 3 GB / 4 GB RAM
- Minimum of 500 GB HDD
- Project laboratories are open from 8.00 A.M-3.45 P.M during working hours and from 3.45
 P.M 4.30 P.M beyond working hours.
- 1 Gbps internet connection is made available in the project labs.
- Students are instructed to shut down the systems after their usage.
- Sensor kits are available to implement remote sensing projects.
- Special software tools for projects, such as B2 Spice, and Broadband wireless Simulator.Xilinx ISE Software are available.
- Mobile phone and Android studio kits are available for mobile app development.
- Matlab tool to implement Data mining and Image processing projects is available.
- Support for usage of any open-source tools, software, and simulator (like NS2) is available.

UTILIZATION

- Students can utilize the project lab on all working days.
- In addition, the project lab is kept open for usage on all Saturdays and beyond the working hours (3.45 pm to 4.30 pm)
- The project Lab is also used for mini-projects and Mobile app development.
- The project lab is also used for research scholars and Ph.D. faculties.



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2021-2022

S.NO	OUTCOMES	COUNT
1	TNSCST PROJECTS	28
2	PROJECT DAY 22	8
3	SMART INDIA HACKATHON	11
4	e-SIM Contest	3
5	PUBLICATIONS	26
6	PATENTS	10
7	Open Innovation Challenge	1
8	Grand Innovation challenge	3
9	CII Young Designer Awards 2021	6



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Bharathi Salai, Ramapuram, Chennai – 600 009

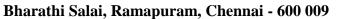
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2020-2021

S.NO	OUTCOMES	COUNT
1	e-SIM Contest	5
2	PUBLICATIONS	55
3	TNSCST PROJECTS	21
4	PATENTS	12
5	PROJECT DAY 21	10



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2019-2020

S.NO	OUTCOMES	COUNT
1	PUBLICATIONS	33
2	PATENTS	2
3	SMART INDIA HACKATHON	1
6	TNSCST PROJECTS	25
7	PROJECT DAY 2020	8

ACADEMIC YEAR 2021-2022



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Bharathi Salai, Ramapuram, Chennai - 600 009

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TNSCST PROJECTS (2021-2022)

S.No	Dept	Investigator(s)	Project title	Sponsoring Agency	COST (Rs. in lakhs)
1	ECE	Mr.V DINESH Krishna N	Human Trafficking safety app	TNSCST	0.1
2	ECE	Dr.S Vanaja Puviyarasi K Vishrutha RV	Non-Invasive Glucometer	TNSCST	0.1
3	ECE	Dr.S Ahamed Ali Ahmed Faizel A Mohan K Bharathi M	Secured Data Outsourcing in the Cloud using SSS	TNSCST	0.11
4	ECE	Mrs.B.Padmavathi Aneesa Banu K Dhivya S Mukesh Karthikeyan	Covid 19 Diagnosis using Cough recordings	TNSCST	0.1
5	ECE	Mrs.S.Kalpana Devi Sharmila R Soundharya S Suganthi R	Effective Management and Visualization of real time monitoring and tracking of student	TNSCST	0.09

6	ECE	Dr.S.Kayalvizhi Nithya Priya J Shrithi S V Soundarya T	Smart Waste management using Geo Tracking of Waste for sustainable habitant	TNSCST	0.1
7	ECE	Dr.R.M.Bhavadharini Divyasree H Dhivyaa T Asvitha S	Doctor Plant : A deep learning based Mobile app to detect plant diseases	TNSCST	0.1
8	ECE	Mr.P.Baskaran Devasena R Aishwaryaa Laxmi B R Abinaya R	IoT Temperature Mask Scan Entry System	TNSCST	0.18
9	ECE	Mr.P.Baskaran Sai Krishna R Saketh Raman R Yuteesh S	IoT based person / wheel chair fall detection	TNSCST	0.1
10	ECE	Dr.C.U.Om kumar Balaji V Nhaveen A Sai Balakrishnan S	Covid Facemask and Temperature Authentication system using machine Learning and Rasberry Pi	TNSCST	0.063
11	ECE	Dr.C.U.Om kumar Narmatha J Christy Ratnarajan K John A	Eco Friendly Beach Cleaning Rover	TNSCST	0.32
12	ECE	Mrs.A.Abirami Sathya Narayanan B	Voice controlled wheel chair using Arduino UNO	TNSCST	0.14

		Sharmitha N				
		Sowbarnika M				
		Mrs.A.Abirami				
13	ECE	Abirami H	Helpr' Near in	TNSCST	0.12	
	LCE	Alekhya N	Ticipi iveai iii	INSCSI	0.12	
		Anu Priyanka B S				
		Ms.S.Bhuvaneswari				
14	ECE	Architha A S	Smart Patient	TNSCST	0.1	
14	LCE	Haritha M	Monitor	INSCSI	0.1	
		Kavya Varshini M				
		Ms.S.Bhuvaneswari	Tabs for			
15	ECE	Prajana Shree N	Alzhiemer's	TNSCST	0.28	
13	LCL	Savitha M	Patients	INSCSI	0.20	
		Vaishalli S	T deforts			
		Dr. V. Mercy Raja	Voice based			
	ECE	Selvi	Digital Payment			
16		Niranjan G M	System in	TNSCST	0.2	
		Samuel Koshy	Regional			
		Sanjith J	Language			
		Mr.K.P.K.Devan				
17	ECE	Aravindhan E	Automatic	TNSCST	0.1	
1,		Dharmala Pranavi	Irrigation System	11 (2 0 2 1	0.1	
		Kishore Shankar A				
		Mr.M.Lakshmanan	IoT Based non			
		Barath Vikraman E	contact			
18	ECE	Dhanasekar D	Temperature	TNSCST	0.07	
		Manoj G	Monitoring Entry			
		3	System			
			Security			
19		Mrs.S.Buvaneswari	Surveillance			
	ECE	Preetha M	detection using	TNSCST	0.08	
		Yashmi S	Convolutional			
			Neural Network			

20	ECE	Mrs.S.Buvaneswari Lavanya N Lavanya N Madhumitha P M	Smart e-voting system through face recognition using machine learning	TNSCST	0.08
21	ECE	Mr.P.Harikumar Dinesh Kumar S Jerrald J	Covid Tracker using Smart Devices	TNSCST	0.14
22	ECE	Dr.J.Deepa Monika R Dhanushah R Kaavya L	IoT based Smart gadget for visually impaired person	TNSCST	0.1
23	ECE	Ms.Rathina Priya V Aishwarya N Harish R M Mehavarshini K	Vital device that speaks for the differently abled	TNSCST	0.1
24	ECE	Ms.M.Bhanumathi Dhanya S Krithika K G Gugan R	Nutrient indicator and feedback system for Hydroponics	TNSCST	0.1
25	ECE	Ms.M.Bhanumathi Ravi Rithika Roshni Ravikumar Sona Selvaraj	Hand gesture Recognition using CNN	TNSCST	0.1
26	ECE	Ms.Rathina Priya V Poojitha T Sakthi V Swetha M	Blood Bank System using Cloud Computing	TNSCST	0.22
27	ECE	Ms.D.Kavitha Sai Adithya R Gowtham B Jeevanantham S	Data Security using Artificial Intelligence for IoT devices	TNSCST	0.1

		Ms.D.Kavitha	Child abuse		
28	ECE	Vishnu Prakash D	detection	TNSCST	0.1
20	ECE	Yogesh S	technique using	INSCSI	0.1
		Sikkindar Sahabudeen	Image Processing		



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Bharathi Salai, Ramapuram, Chennai - 600 009

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PROJECT DAY (2022)

S.No	Project No	Title of Project	Mentor Name	Student Name
				Gayathri S
				Bhagavath Kumar M
1	EEC ECE 001	Voice recognition enabled farmer assistance module with LoRaWAN connectivity	Dr. R. Hema, AP/ECE 9840211547 9894480651	Hariharasudha n S
				Jabilo Jose J
				Ajit Kumar M
	EEC ECE		Dr. O Vignesh,	Sakthi Sneghaa V A
2	002	Virtual Assistant	AP/ECE 9994242158	Shakthi S P Sona Shiva

3	EEC ECE 003	Virtual Reality using Arduino and processing	Dr. R. Praveen Kumar AP/ECE 9994254328	Swathy R Vithiya N Sooraj. I Roopashree. V Soundarya. R Srividya.R Triniton Simon I	Paul.M
4	EEC ECE 004	Human Trafficking safety App	Mr.V.Dinesh, AP/ECE, 9003936045	Krishna N	
5	EEC ECE 005	Non-invasive glucometer	Dr. S. Vanaja, AP/ECE 9094866634	Puviyarasi K Vishrutha RV	
6	EEC ECE 006	BUS TRACKING AND AUTOMATED TICKETING SYSTEM THROUGH IOT	Mrs.A.T.MADHAVI, AP/ECE, 9941961987	M.S.Vaaraghi Esther Rani.P.T Akash .K Thilagavathy.E	
7	EEC ECE 007	Indian sign language translator	Dr.R.Hema AP/ECE 9894480651 Ms. T. Gophika, AP/ECE 9003952868	Ashish Hameed Ananya.M Gopika J S Phvan Paveethra K	.C
8	EEC ECE 008	Secure Wireless controller for Hand-Held remote operation of Traffic Signals	7 7 7 7 2 2 0 0 0		

PROJECT DAY (2022) CERTIFICATES









PROJECT DAY 2022 Certificate of Participation

This is to certify that Mr. / Ms. SHRUTHI PRIYA D M.

has participated in the "PROJECT DAY 2022" held on 21st & 22nd April 2022 at Easwari Engineering College,

Ramapuram, Chennai - 600 089.

Project titled Virtual Assistant.













PROJECT DAY 2022 Certificate of Participation

This is to certify that Ar. / Ms. SWATHY R of III ECE

has participated in the "PROJECT DAY 2022" held on 21st & 22nd April 2022 at Easwari Engineering College,

Ramapuram, Chennai - 600 089.

Project titled Vertual Americant

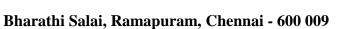








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PUBLICATIONS (2021-2022)

TYPE OF PUBLICATION	COUNT
SCOPUS JOURNAL	1
SCI/WOS JOURNAL	16
INTERNATIONAL JOURNAL	17
NATIONAL JOURNAL	Nil
INTERNATIONAL CONFERENCE	36
NATIONAL CONFERENCE	NIL



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SCI

			Impost	
S. No	Name of the Authors	Details of the Publication	Impact Factor	Citations
INU	ivalle of the Authors	Details of the Fublication	Factor	Citations
		"An Enhanced Scheduling Technique To		
		Maintain Qos In Real Time Data		
		Communication In Wireless Mesh		
		Networking", International Journal of Aquatic		
	LegaPriyadharshini,	Science ,ISSN: 2008-8019,Vol 12, Issue 03,		
1	Sivakumar	139-155.	2.744	-
		"An Automated Water Quality Monitor and		
		Fish Feed Dispenser system in Aqua Farms		
	Vidhyalakshmi. M;	using Internet of Things", International Journal		
	Premkumar .R; Saranya	of Aquatic Science -2008-8019,Vol 12, Issue	2 744	
2	S; Priya. C	02, 2021, 2214-2220	2.744	-
		"An Efficient approach for removing Haze from		
		single Image using Gaussian Pyramidal		
		Decomposition",Concurrency and		
2	Senthilkumar K P,	Computation-Practice and Experience, 1532-	2.475	4
3	Sivakumar P	0626, Volume-33 Issue -16.	2.175	1
		"Performance Analysis of Malicious and Link		
	K.Kalaiselvi,L.Vanitha,T.	Failure Detection System Using Deep Learning		
4	Rajesh Kumar,S.	Methodology", Wireless Personal	2.047	2
4	Saranya,K. Kumaresan	Communications.	2.017	2
	R.Sundar ,	"Underwater Biofouling Detection Using		
	A.T.Madhavi,	Image Processing andNeural Network",		
_	P.Veerakumar,	International Journal of Aquatic Science, Vol	2 744	
5	Dr.Suresh.A	12, Issue 03, 2021.	2.744	-
	K.Kalaiselvi,S.Saranya,			
	K.DeepaThilak,	"Replication Image Detection Using	1 40	
6	Kumaresan.K	Convolutional Neural Network", Journal of	1.49	-

		Engineering Research, 2307 -1877, Vol 2021, 1-10,		
7	Swaminathan, J.N., Vignesh, O., Kalyan Chakravarthy, N.S.	"Harmonic Inversion Based Posterirori Minimization in HPA for 5G Communication Framework", Wireless Personal Communications, Vol.120, Issue no.2, Apr- 21,1279–1289, 2021	2.017	-
8	Praveen Kumar, R., Raj, J.S., Smys, S.	"Performance Analysis of Hybrid Optimization Algorithm for Virtual Head Selection in Wireless Sensor Networks", Wireless Personal Communications, 2021	2.017	1
9	Suresh, A., Resmi R Nair., Neeba, E.A., Kumar, S.A.P.	"Recurrent Neural Network for Genome Sequencing for Personalized Cancer Treatment in Precision Healthcare", Neural Processing Letters	2.908	4
10	Vidya, P.M., Sudha, S.	"A fully integrated VLSI architecture using chaotic PWM for RF transmitter design with electromagnetic interference reduction", Integration, the VLSI Journal, Jan-22, 33 - 45.	1.211	-
11	Sunanthini, V., Deny, J., Govinda Kumar, E., Vairaprakash, S., Govindan, P., Sudha, S., Muneeswaran, V., Thilagaraj, M.	"Comparison of CNN Algorithms for Feature Extraction on Fundus Images to Detect Glaucoma", Journal of Healthcare Engineering, 2022	2.682	-
12	Arivuselvam B, Sudha S	"Leukemia classification using the deep learning method of CNN", Journal of X-Ray Science and Technology, Volume 30,Issue 3, Pages 567 - 585.	1.535	-
13	Indumathy, D., Ramesh, K., Senthilkumar, G., Sudha, S., Mohanaprakash, T.A.	"Investigations on coronary artery plaque detection and subclassification using machine learning classifier", Journal of X-Ray Science and Technology, Volume 30, Issue 4 513 - 529, 2022.	1.535	-
14	S. Saranya and S. Sudha	"Execution Analysis of Clarity Locale Segmentation for Condition Recognition Utilizing Genetic Algorithm Method", Journal of Medical Imaging and Health Informatics,	0.189	-

		Volume 12, Number 1, January 2022, p. 20-26(7).		
	S.Vanaja,R Preetha,	"Location of early stage tumor detection		
	Sheela , Durga Devi,	using microwave imaging in the breast		
15	Warrier GS, Krishnan R	phantom", Current Medical Imaging.	1.24	-
		"Wireless Sensor Network-based Detection of		
		Poisonous Gases Using Principal Component		
	Dharini N,Jeevaa	Analysis", Computer Systems Science and		
	Katiravan, Udhaya	Engineering, 0267-6192, Volume 44, Issue 1,		
16	Sankar S M	249-264.	4.397	-

SCOPUS

(i)National & International Journals

	Name of the		Impact	
S. No	Authors	Details of the Publication	Factor	Citations
	S. Suruthi,Shivaani	"Contactless COVID-19 vaccine verification system", International Journal of Health Sciences, ISSN:2550-6978E-ISSN:2550-696X, 6(S4), 4481–4490, https://doi.org/10.53730/ijhs.v6nS4.9096		
1.	M,Swetha M		1.663	-

(ii)National &International Conference Proceedings

S. No	Name of the Authors	Details of the Publication	Impact Factor	Citations
		"Hand Gesture Recognition for Deaf and		
		Dumb Using CNN Technique", 6th		
		International Conference on Communication		
	Vanaja, S., Preetha,	and Electronics Systems (ICCES), IEEE		
1.	R., & Sudha, S	Explore, 2021	2.28	1

2.	Balaji, A., Rahul Krishnan, S. Vanaja , T. Sowmiya, and R. Vanitha.	"Design and Analysis of Tri-Band Stop FSS for Medical Instruments Shielding Application", 6th International Conference on Communication and Electronics Systems (ICCES), IEEE Explore, 2021	2.28	-
3.	Jeyapoornima, B., V. Chinnammal, S. Vanaja, J. Joselin Jeya Sheela, Rahul Krishnan, and Y. DEEPIKA	"DESIGN OF MEANDER LINE ANTENNA FOR FOETAL MOVEMENT DETECTION", 6th International Conference on Communication and Electronics Systems (ICCES), IEEE	2.28	1
J.		Explore, 2021	2.20	1
	SP, Vijaya Vardan Reddy, B. Sathyasri, A. Balaji, S. Vanaja, Rahul Krishnan, and	"Automatic Number Plate Recognition System for Entry and Exit Management", 6th International Conference on Communication and Electronics Systems (ICCES), IEEE		
4.	Y. Deepika	Explore, 2021	2.28	-
_	Preetha, R., Vanaja, S., Sudha, S., Vidyalakshmi, M., &	"LOWER GRADE GLIOMA DETECTION USING MRI IMAGE", 6th International Conference on Communication and Electronics Systems		
5.	Lathamanju, R	(ICCES), IEEE Explore, 2021	2.28	-
	D.C.Diana, S.P.Joy	"Modified inertia weight approach in PSO algorithm to enhance MMSE Equalization", IEEE 4th international conference on Electrical, Computer and Communication		
6.	Vasantha Rani	Technologies, 2021	0.48	1
7.	Parthiban T, Reshmika D, Lakshmi N, Ponraj A	"Handwritten Text to Braille for Deaf-Blinded People Using Deep Neural Networks and Python", Lecture Notes in Networks and Systems, ISSN - 23673370, V-339, PP-379- 393, 10.1007/978-981-16-7018-3_28	0.6	-

(iii) Book Chapters

S. No	Name of the Authors	Details of the Publication	Impact Factor	Citations
1.	V. Sathya, Kirankumar Manivannan, V. Vani, Sridhar Chandrasekaran	"An Obfuscation Technique for Malware Detection and Protection in Sandboxing", Springer book chapter, Artificial Intelligence for Cyber Security: Methods, Issues and Possible Horizons or Opportunities. Studies in Computational	1.06	-

		Intelligence, vol 972. Springer, 978-3-030-72236-4, 235-261, https://doi.org/10.1007/978-3-030-72236-4_10		
	Swaminathan, J.N.,			
	Umamaheshwari,			
	S., Vignesh, O.,	"Image Encryption Using Diffusion and		
	Raziya Sulthana, P.,	Confusion Properties of Chaotic Algorithm",		
	Hima Bindu, A.,	Lecture Notes on Data Engineering and		
	Prasanna, M.,	Communications Technologies, 75, 305-312,		
2.	Sravani, M.	10.1007/978-981-16-3728-5_22	0.42	-



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PATENTS 2021-2022

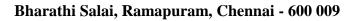
S.No	INVENTORS	Title of the Patent	Patent. no	Year
1	R. Praveen Kumar K. Suriya B. Arivuselvam R. Hema K. Abirami Dr. Jessintha	A badge-shaped microstrip antenna for X-Band application	202141024860 A	June 2021
2	P. Bini Palas Ms. S. Uma Maheswari	Lung Pulmonary Disease with Coronavirus (COVID- 19) Infection Identification And Classification	202141043919	October 2021
3	Dr. S. Sudha Dr. R. Senthamizh Selvi Dr. Resmi R Nair Mrs. Bindu Babu Mrs. Caroline Jebakumari	A system based on three dimensional thermal imaging and image processing for analysing dermatological disease and disorder	202141055032	December 2021
4	Dr. D. Sivakumar, Mr. M. Premanand	Compact Antenna Arrays for MIMO	20224102370	Filed on 22.04.2022
5	1)Dr.S.Sudha 2)Dr.S.Saranya 3)Dr.S.Vanaja 4)Mrs. Bindu Babu 5)Mr.V.Dinesh 6)Mr.M.Kirankum ar 7)Dr.S.R.Sriram 8)Dr.D.C.Diana 9)Dr.A.Ponraj	Techniques to Protect Electronic Circuit Boards from Maturization	202241021369 A	Filed on 09/04/2022, Published on 22/04/2022

	10)Mr.B.Arivuselva			
	m			
6	Dr. R. Senthamizh Selvi Dr. K. Rahimunnisa Dr. D. Jessintha Mrs. A. Abirami Dr. A. Ponraj	A Low-cost System for Screening Patients with Diabetic Retinopathy using Machine Learning	202241020826	06.04.2022 25.04.2022
7	Dr. Resmi R Nair Dr. S. Sudha Dr. R. Senthamizh Selvi Ms. R. Hema Ms. T. Gophika Ms. S. Suruthi	Development of device for recognising speech from an audio signal	202241027259 A	17/06/2022
8	Dr. B. Suresh Chander Kapali Dr. B. Suresh Chander Kapali Mrs. S. Uma Maheswari Mrs. P. Bini Palas Mrs. J. Johnsi	Design of Precise Diagnostic Medical Probe for Detection of Colorecta Cancer	202241050129 A	09/09/2022
9	Dr. K. Mala Dr. Chandrakala T. Gophika Dr. S. Sudha	Electronic device and Internet based dynamic authentication method	202241041136	19/07/2022
10	Thiyagarajan Anitha Dr.S.Sunderarajan M.Renuga K.V.Mahalakshmi Dr.R.Venketeshkum ar K.S.Mohan V Dinesh Dr.Bethanny Janney J Dr.M.Udhayamoorth i	A Novel Portable Machine to Sanitize Footware	202241052384 A	Published on 14.10.2022

Dr.Dishore		
Shanmugam Vanaja		



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PATENTS 2021-2022 PROOFS

(19) INDIA

(51) International

(86) International

(87) International

Publication No.

Filing Date

Filing Date

Application Number

Filing Date

(62) Divisional to

(61) Patent of Addition:NA to Application Number :NA

Application No

classification

(22) Date of filing of Application :28/09/2021

(21) Application No.202141043919 A

(43) Publication Date: 05/11/2021

(54) Title of the invention: LUNG PULMONARY DISEASE WITH CORONAVIRUS (COVID-19) INFECTION IDENTIFICATION AND CLASSIFICATION USING

:G06T0007000000, G06N0003040000,

G06K0009620000, A61B0006030000,

A61B0006000000

:NA

: NA

:NA

(71)Name of Applicant:

2)Dr. G. BABU

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3)Ms. K. SHRUTHI 4)P. BINI PALAS 5)Ms. S. UMA MAHESWARI 6)Ms. K. P. REVATHI Name of Applicant : NA

Address of Applicant : NA 72)Name of Inventor:

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6)Ms. K. P. REVATHI

Address of Applicant : Assistant Professor, Easwari Engineering College, Bharathi Salai, Ramapuram, Chennai, Tamil Nadu, India 600089

(57) Abstract

Abstract The entire lung image, including the pulmonary images, is acquired from the efficient Computed Tomography (CT) device plays a vital role in early lung disease diagnosis and treatment based on the real-time application. Convolutional Neural Network (CNN) based analysis and classification of the deadly lung pulmonary disease using the CT medical images employing the Deep Learning (DL) tools. The lung tissue contrast of morphological structures of the thoracic images helps the specialists in diagnosing and treating all lung diseases more effectively. This image processing model consists of the deep learning classifier with the training datasets stored in the database are compared to the testing samples. The COVID-19 infection is identified using the temperature sensor embedded with Internet of Things (IoT) cloud and the image processor. Since the symptoms of the pulmonary disease are same as the coronavirus except that of the temperature raise added to COVID-19 infection is predicted earlier and shall proceed to further

No. of Pages: 13 No. of Claims: 4

(19) INDIA

(51) International

(86) International

(87) International

Publication No

Filing Date

Filing Date

Application Number

Filing Date

(62) Divisional to

(61) Patent of Addition NA

to Application Number NA

Application No

classification

(22) Date of filing of Application :28/11/2021

(21) Application No.202141055032 A

(43) Publication Date: 10/12/2021

(54) Title of the invention: A SYSTEM BASED ON THREE-DIMENSIONAL THERMAL IMAGING AND IMAGE PROCESSING FOR ANALYSING DERMATOLOGICAL DISEASE AND DISORDER

:H04N0007180000, G01V0003120000,

G06K0009000000, G01C0011000000,

G06F0003000000

:NA

: NA

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(57) Abstract:

[035] The present invention discloses a system based on three-dimensional thermal imaging and image processing for analysing dermatological disease and disorder. The system includes, but not limited to, an image capturing device adapted to utilize the computer vision storehouse to read the camera data, and be converted to spectral intensity digital image data file; a processing unit to process a matrix class for the converted spectral intensity digital image Data file, realize that spectrum matrix iteration rebuilds computing through the thermal image processing, obtain three-dimensional emission coefficient of the skin lesion; and a database storage to receive the transferred obtain three-dimensional emission coefficient data in rebuilding object space coordinate points to further creating function library, realize final three-dimensional IR image display based on processed captured image data for detecting dermatological disease and disorder. Accompanied Drawing [FIG. 1]

No. of Pages: 23 No. of Claims: 9

(19) INDIA

(22) Date of filing of Application :22/04/2022

(21) Application No.202241023706 A

(43) Publication Date: 13/05/2022

(54) Title of the invention: COMPACT ANTENNA ARRAYS FOR MIMO APPLICATIONS

(51) International

:A61C0007000000, H01Q0019060000,

classification

A61L0031140000, B42B0004020000, A61C0007280000

(86) International Application No

:PCT//

Filing Date

:01/01/1900

(87) International Publication No

(61) Patent of Addition NA to Application Number :NA Filing Date

(62) Divisional to Application Number :NA Filing Date

· NA

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(57) Abstract:

The Multiple-input multiple-output (MIMO) radio wire framework is an essential report in the present Wireless correspondence framework particularly when the sign proliferates through a few adulterated conditions. In our invention, another methodology of a MIMO radio wire is proposed. It is worked in the recurrence band of 9.45 GHz. This radio wire is reasonable to neutralize the blurring impact brought about by multipath proliferation. We use antenna-antenna connections to diminish spatial relationships among receiving wire components, which takes into account firmly stuffed exhibits for MIMO applications in little convenient gadgets. The decrease in spatial connections is a consequence of the adjustment of the receiving wires' radiation design when the components are carried near one another. We show how a specific dielectric receiving wire component can be controlled so that firmly positioned components have either almost isotropic radiation examples or more anisotropic ones.

No. of Pages: 13 No. of Claims: 6

(19) INDIA

(22) Date of filing of Application :09/04/2022

(\$1) International classification ps=8004000000, Ho5K000500000 ps=8004000000, Ho5K0001160000

:01/01/1900

(80) International Application :PCT//

(87) International Publication : NA

(61) Patent of Addition to (61) Parent of Assument (62) Application Number (62) Piling Date (62) Divisional to Application (63)

Filing Date

Number Filing Date

(21) Application No.202241021369 A

(43) Publication Date: 22/04/2022

(54) Title of the invention: TECHNIQUES TO PROTECT ELECTRONIC CIRCUIT BOARDS FROM MATURIZATION

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3)Dr.S.Vanaja 4)Mrs. Bindu Babu 5)Mr.V.Dinesh 6)Mr.M.Kirankumar

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(57) Abstract:

Circuit bourth of electronics are used in a variety of devices. Such as - TV, music system, computer, vehicle, fan and air conditioner, medical machine, industrial machine etc. The most important thing is that the circuit bounds of electronics also deteriorate very quickly. There are many reasons for their deterioration. For example, over-voltage supply and moisture. To solve this problem, we consider a technique due to which the electronic circuit bound can be easily protected from moisture. We describe this technique in drawing and detailed description, for study To avoid moisture to the electronic circuit bound, we use a small size square 2 cm thick, cardboard made of cotton in this new technique. We put this cardboard on the electronics circuit bound. The specialty of cotton cardboard is that it absorbs moisture witneed description.

No. of Pages: 14 No. of Claims: 4

(19) INDIA

(22) Date of filing of Application :07/04/2022

(21) Application No.202241020826 A

(43) Publication Date: 22/04/2022

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Name of Applicant : NA

Address of Applicant : NA

(54) Title of the invention: A Low-cost System for Screening Patients with Diabetic Retinopathy using Machine Learning

(51) International

:A61B0003120000, G06N0003040000,

G06K0009660000

(86) International Application No

classification

:PCT// :01/01/1900

Filing Date (87) International Publication No

: NA

:NA

·NA

(61) Patent of Addition:NA to Application Number :NA Filing Date

(62) Divisional to Application Number Filing Date

A61B0003140000, G16H0050200000,

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[010] Diabetes is an important global disease, with impacts mainly on primary health care, which can present several complications, including diabetic retinopathy. Diabetic Retinopathy (DR) is one of the leading causes of blindness worldwide. Diabetic retinopathy is diagnosed using funduscopy, but the equipment to perform such an examination is difficult to access, especially in less developed countries. Therefore, this work aims to analyze and propose a system for screening patients with diabetic retinopathy, using fundus images obtained by a cell phone in conjunction with lenses. Lenses and methods for obtaining the fundus image were analyzed, in addition to the analysis of machine learning techniques and neural networks for image processing. As a result, the most suitable lens was the non-attachable VOLK 20 diopter lens. The proposed method for image acquisition, composed of a stable and mobile physical structure in all axes, with the presence of three variables (eye, lens, and cell phone), was developed by 3D modeling and printing. For processing, the Tensorflow framework was chosen, due to its very active community and its good results for two-dimensional images. For the integration of the system, a mobile application was developed, in order to perform the interface between the image acquisition and the neural network. Tests were performed on Fantons, using the images from the EyePacs-1 database. After processing, the integrated system returns to the user, through the application, the probability of the existence of diabetic retinopathy. An f-score of 0.64 was obtained. With this, it is possible to develop a method of screening for diabetic retinopathy, for use in primary care in locations with little access to eye care. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8] [FIG. 9] [FIG. 10]

No. of Pages: 21 No. of Claims: 4

(19) INDIA

(22) Date of filing of Application :12/05/2022

(21) Application No.202241027259 A

(43) Publication Date: 17/06/2022

(54) Title of the invention: Development of device for recognising speech from an audio signal

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:G10L0025780000, G10L0021021600,

(51) International Resmi R Nair

G10L0021020800, G10L0025210000, classification

G10L0025840000

(86) International

:PCT//

Application No

:01/01/1900

Filing Date

International

: NA

Publication No

(61) Patent of Addition

:NA -- to Application Number :NA

Filing Date

(62) Divisional to :NA

Application Number

:NA

Filing Date

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(19) INDIA

(22) Date of filing of Application :02/09/2022

(21) Application No.202241050129 A

(43) Publication Date: 09/09/2022

(54) Title of the invention: DESIGN OF PRECISE DIAGNOSTIC MEDICAL PROBE FOR DETECTION OF COLORECTAL CANCER

(51) International

:C07C0067055000, H04R0025000000, A61P0025220000, C07K0014470000,

A61P0031000000

(86) International

classification

Application No Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition :NA to Application Number :NA Filing Date (62) Divisional to :NA

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(57) Abstract:

Early diagnosis of colorectal cancer with customized treatment is possible by detecting oncogene mutation. In this research we focus on a sensitive and rapid detection of specific mutation assay using modern clinical probe able to detect specific hot spots. This clinical probe is able to recognize mutation that occurs in DNA of the tissues of colorectal cancer by integrating it with PCR (polymerase chain reaction). Amplification of the target mutation is provided by the designed hot spot detecting clinical probe in the analysis using PCR which detects genetic material. The efficiency of mutation detection is obtained by calculating the threshold of the cyclic reaction. The detection limit is 5% to 10% of threshold value. Several sample tissues of various patients affected by colorectal cancer is analyzed by the proposed clinical probe, which is able to provide 80% efficiency compared to conventional techniques.

No. of Pages: 7 No. of Claims: 5

(19) INDIA

(22) Date of filing of Application :14/09/2022

(21) Application No.202241052384 A

(43) Publication Date: 14/10/2022

(54) Title of the invention: A NOVEL PORTABLE MACHINE TO SANITIZE FOOTWEAR

(51) International classification
(56) International Application No
Filing Date
(77) International Publication No
(61) Pater of Addition to
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Application National
Application National
Application National
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(57) Abstract:
Generally, the fixer rear is widely accepted for cleaning the underseath of flortwar and adopted even in various sensitive locations, for example, henceive Care Units (ECU), surgery wings, startle areas of a pharmaconical transferance and, fixed packaging and manufacturing faculties etc. The sour wearing the footwar while to make, public tolets, malls, pushs, and other open areas. Items where the footwar is more present to resoonered infections continues. People having these infections continues device for each stress become a privatery source of open along infections continues and the footwar when they wish those sorrative locations, continues the five and at times become a privatery source of open along propels. In this interestina, a satisfacturines of a soonered that comprises a background between proving an extract surface and surrounding edges, or coughing means included ulong a partition of the surrounding edges of each housing toward and the foot and first surface of the five panel become private, as other surface and surrounding edges, or coughing means included ulong a partition of the surrounding edges of each housing partition of the housing toward of the housing toward of the foot and first an open and the fixed panel become partition of the housing toward of the source of the fixed panel become partition of the housing toward of the fixed panel become partition of the housing toward of the fixed panel become partition of the housing toward of the fixed panel become partition of the housing toward of the fixed panel become partition of the housing toward of the fixed panel housing occupance of the fixed panel and the outer surface of the housing toward of the fixed panel become of the fixed panel housing occupance of the fixed panel housing occupance of the fixed panel housing occupance of the fixed panel and the outer surface of the housing toward of the fixed panel housing occupance of the fixed panel housing occupance of the fixed panel housing occupance of the fixed panel housing

No. of Pages: 11 No. of Claims: 3



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SMART INDIA HACKATHON 2022

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	D Aarthy			Participated,
	Ajitkumar M	1		selected for the
		-		grand finale,
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				participation with a
			ST888-	consolation prize for
			Automated	best competency,
			feedback system	and Team Mentor
1		Mr V Dinesh,	of Non-	received the
1		AP/ECE	functioning of	certificate for his
			street lights in	exceptional
			the rural areas of	contribution as a
			central India.	mentor in Smart
				India Hackathon
	Akshaya M			'2022.
	Charulatha S	1		
	Charulatha T S	1		
	Gopalakrishnan	1		
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2			STUDENT	Participated
2	M.S.Vaaraghi		INNOVATION	T di ticipated
	Esther Rani P T			
	Akash K	MRS. A.T.MADHAVI		
	Dhanavarshini K			
	Jayashree S			
	Thilagavathy E			
3	Sherlee B	Dr.S.Vanaja/AP;	Continuous	Participated
	Р	Dr.S.R.Sriram/AP	monitoring of	
	Sushmitha		Blood pressure	
	R		using ECG and	
	Tamizh		PPG sensor	
	Vanan K			
	Thirumalai Raj M			
	Vishanth R			
	Vithun N M			
4		Dr.S.Vanaja/AP;	Non-invasive	
	PUVIYARASI K	Dr.S.R.Sriram/AP	Glucometer	Participated
	SAI KEERTHI A			
	SOWMIYA			
	А			
	SMIRITI SHREE C.S			
	SOWMIYA N			
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CHARUPRIYA			
HARIHARASUDHAN			Participated
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DEEKSHIGA G			
BHUVANESHWARAN	Ms.S. Suruthi /AP,	SM943 Smart	
L	Dr.Resmi Nair/ASP	Automation	
JESSICA ACHAMMA			
JOE			
JOAN AASHRITHA A			
			Participated
HIRESH R			
GOKULAKRISHNAN			
ANAGHA			
RAGUNATH			
THIRUKSHA	Gophika	Secure wireless	
G	T,Dr.D.Jessintha	controller for	
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		traffic signals in	
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	M		framework	
	Kumaran S	Mrs. S Caroline		
		Jebakumari, Mrs.		Participated
	Monisha A V	Bindu Babu		
	Meiyarasu V			
	Karthik			
	Madhan			
10	Sakthi		Accessing visual	
	Sneghaa V A		information	
			(written	
	Shakthi S P			
		Dr O Vignesh ,Mr	information) by	
	Sona Shiva	Praveen Kumar	persons with	Participated
	Sruthi Priya		visual disability.	
	D M			
	Swathy R			
		1	1	L

	Thilagavathy E			
11	Pramodh Kumar Kaviya V		Disaster Managment	
	LingaRamkumar	Mr V Dinesh		Participated
	Krishnan N	WII V DINESII		T di tionpated
	Saicharan			
	Nithin V			



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

SMART INDIA HACKATHON 2022 REPORT

Date: 25.8.2022

Venue: IIT, Kanpur

Team Selenium from the Department of Electronics and Communication Engineering represented Easwari Engineering College in the Smart India Hackathon 2022 grand finale conducted at IIT, Kanpur, UP on Aug 25th and 26th 2022. The hackathon went on for 36 hours without any break. It was a tough fight between another team and us out of 5 teams under Problem Statement No ST888, statement Title - Automated feedback system of Nonfunctioning of street lights in the rural areas of central India. The Team had a great time in exposing their talents, and showcasing skills and had good exposure to learning professional and management skills. Overall, the evaluators were satisfied with our solution and greeted us

Highlights of the Smart India Hackathon'2022 Grand finale























e-Sim Contest

S. No	Organi zation / Agency / Schem e Name	Team Members with Class	Name of the Facult y Guide	Projec t Title	Type of proje ct (appl icatio n, prod uct, resea rch, revie w, etc.)	Participat ion/Winni ng Details	Detail s of POs and PSOs addre ssed throu gh the projec ts
1	Mixed Signal Circuit Design and Simulati on Marath on	Shakthi SP Sakthi Sneghaa V A Sona Shiva Sruthi priya Samyuktha sruthi Soundarya	Dr.R.Se nthami zh selvi	e-SIM Marath on	Desig n	Won excellency award	PO1 PO9 PO11 PSO1 PO1 PO9

	using e-	Srividya					PO11
	Sim	Sooraj					PSO1
		Sruthi Priya					PO1
		M. S. Vaaraghi					PO9
		Shruthi .S. S					PO11
							PSO1
		Vignesh. R Varsha. B Yogapriya. 8 B					
		Lokesh. M					PO1
		Gokula Krishnan.E					PO9
	Mixed	Vasanth. M.S					PO11
	Signal	Swathy. R					PSO1
	Circuit Design	Sudev.G					PO1
	and	Triniton Simon	Dr.Res mi R	e-SIM Marath	Desig	Participate	PO9
2	Simulati on	Paul E.Surya	Nair	on	n	d	PO11
	Marath on						PSO1
	using e-	Subhishwar					PO1
	Sim						PO9
							PO11
							PSO1
	Mixed						PO1
	Signal Circuit	Yashwanth					PO9
	Design	Vishwwa. S	Mc	o-SIM			PO11
3	Simulati	Vignesh. B	Bindhu	Marath	Desig n	Participate d	PSO1
	on Marath	sujidhan.s.j	Babu	on			PO1
	on	yogaverma.v					PO9
	Sim						PO11
3	Signal Circuit Design and Simulati on Marath on using e-	Vishwwa. S Vignesh. B sujidhan.s.j	Ms. Bindhu Babu		_	Participate d	PO1 PO9 PO11 PSO1 PO1 PO9

							PSO1
							PO1
							PO9
							PO11
							PSO1
							PO1,
							PO2,
							PO3,
		77.11		Marath			PO4,
	Circuit	Krishnamoorthy, III ECE B,					PO5,
4	Design and Simulati	M.Aakash	Dr.R. Sentha			Won -5	PO9,
		ati Ece	mizh	on	Appli	National level awards	PO10,
	on Maratho	III Year A Section, Samyuktha	Selvi, ASP/E	using eSim	cation		,
	n using eSim	Surithy-II ECE C, Yogapriya. B- II	CE				PO11,
		ECE C, Suruthy Priya D M II ECE C					PO12.
							PSO1,P
							SO2,PS
							О3
							PO1,
							PO2,
							PO2,
	Open Innovati	M. Subiksha, S.	Mrs.	Come and	A 1:	Best team	PO4,
5	on Challen	Ramadevi, P.Supritha	Bindu Babu	Smart AI Bus	Appli cation	Work Award	PO5,
	ge	1.5upituia	Daba			Awaru	103,
							PO9,
							PO10,

							PO11,
							PO12.
							PSO1,P SO2,PS O3
							PO1,
							PO2,
							PO3,
							PO4,
							PO5,
	Open						PO9,
_	Innovati on		Mrs. Bindu	Smart	Appli	Best team Work	PO10,
	Challen	P.Supritha	Babu	AI Bus	cation	Award	1 0 10,
	ge						PO11,
							PO12.
							PSO1,P
							SO2,PS
							О3
		5. Sona Shiva	R.Prav een	Design of			PO1,
		Varsha B	Kumar	Bluetoo			PO2,
		Swathy R	Dr.R.S ENTH	th or USB			PO3,
	Grand Innovati		AMIZH	Headset	. 1:		PO4,
7	on challeng	6.Samyuktha Shrruthi K R	SELVI	•	Appli cation	Registered	PO5,
	e	(team leader)	0 1 "				FO3,
		2. Yogapriya B	Gophik a T	Docion			PO9,
				Design of low			PO10,
		3 Sri Malini R		cost wireles			

		7.		S			PO11,
		S.Suruthuka (team leader)		charger			PO12.
		V.S.Sneha					PSO1,P
		8. M.Rushmitha		Wireles			SO2,PS
		Soundarya.R (team lead)		charger			O3
		Roopa Shree.V					
		9.Srividya.R		To design			
		Vishrutha R V Sherlee B		a low cost			
		P P		bluetoo			
		Vishnu Priya G		th speaker			
		10. THIRUKSHA		Design of low cost power			PO1,
		G		bank			PO2,
		SOWMIYA A	DR.O.				PO3,
	Grand	SUPRAJA R	VIGNE SH				PO4,
8	Innovati on	11. Shivani. S	511	D 002	Appli	Registered	PO5,
	challeng	Sri Harini. K	Mrs.R.	P-003: To	cation	register cu	PO9,
	e	Vasanth. B G R	Hema	design a Low-			PO10,
		Priyavarshini(Tea m Leader)		cost wireles			PO11,
		B Kiruthiga		Charger			PO12.

							PSO1,P
							SO2,PS
							О3
							PO1,
							PO2,
							PO3,
							PO4,
			Bindu Babu	SUST AINAB LE BUS TRAN SPOR T		Grand	PO5,
9	CII	M. Subhiksha					DO0
	Young Designe	N. Shrija			Appli		PO9, PO10,
	r Awards 2021	S. Rama Devi P. Supritha			cation	Finale	1010,
				SYST			PO11,
				EM			PO12.
							PSO1,P
							SO2,PS
							О3
							PO1,
							PO2,
							PO3,
	CH	SHIVAANI					PO4,
	CII Young	M		Moble			PO5,
10	Designe r		Mrs. S. Suruthi,	App for Health	Appli cation	Registered	
	Awards 2021			care			PO9,
	2021						PO10,
							PO11,
							PO12.

CII Sooraj.I Propell Appli Cation Registered Pol., P								PSO1,P
CII Sooraj.I Propell								SO2,PS
CII Sooraj.I Propell Appli Propell Appli Propell Appli Propell Cation Propell Prop								О3
CII Sooraj.I Propell Appli Propell Appli Propell Appli Propell Cation Propell Prop								PO1
CII Young Designe r Awards 2021 CII Young Company Com								
CII Young Designe r Awards 2021 CII Young Designe r Awards 2021 CII Popell er clock CII Popell er clock Propell er clock Propell Appli cation Registered Pol10, Pol11, Pol22. Psol, Fig. Popell Pop								
CII Young Designe r Awards 2021 Mr. R. Praveen Kumar. Propell er clock Appli cation Registered PO5, PO9, PO10, PO11, PO12. PS01,I S02,PS O3 CII Young Samyuktha Shrutbi Shrutbi Pothol e detecti								
CII Young Designe r Awards 2021 CII Young Designe r Awards 2021 CII Young Samyuktha Shruthi Soverable Registered Propell er clock Registered Propell Propell er clock Registered Propell Registered Propell Prop								
Designe r Awards 2021 Designe r Awards 2021 Propell er clock Propell er clock Propell cation Politication Politicati		CII	Sooraj.I					
Awards 2021 r Awards 2021 er clock cation Registered PO10, PO11, PO12. PSO1,F SO2,PS O3 PO1, PO2, PO3, PO4, PO4, PO5					Propell	Appli		
2021 PO11, PO12. PS01, I S02, PS	r Av	r Awards					Registered	PO10,
PSO1,F SO2,PS O3 PO1, PO2, PO3, PO4, PO4, PO5								PO11,
SO2,PS O3 PO1, PO2, PO3, PO4, Shruthi Addecti PO5								PO12.
SO2,PS O3 PO1, PO2, PO3, PO4, Shruthi Addecti PO5								PSO1 P
CII Samyuktha Pothol e Pothol PO4, PO5								
PO1, PO2, PO3, PO3, PO4, PO4, PO4								
CII Samyuktha e detecti PO5.								03
CII Samyuktha e detecti PO5.								PO1,
CII Samyuktha e detecti								PO2,
Young Samyuktha e detecti								
1 Ourig Shrruthi detecti PO5			Samyuktha					PO4,
Designe Vocaprive E Mrs.K. on and Appli Pagistared	12	Designe	Shrruthi,	Mrs.K.	detecti on and		Registered	PO5,
Awards Gopika intimati Cation PO9,			i ogapiiya.L	Gopika	intimati	cation	1109.500100	PO9,
2021 on system PO10,		2021						PO10,
DO11								PO11,
								PO11, PO12.
								1012.

							PSO1,P
							SO2,PS
							О3
							PO1,
							PO2,
							PO3,
							PO4,
				Agrine ss			PO5,
	CII						
	Young Designe	Vaaraghi M.S	Mrs.Ma		Appli		PO9,
r Award 2021	r	wards	dhavi		cation	Registered	PO10,
							PO11,
							PO12.
							PSO1,P
							SO2,PS
							O3
							03
							PO1,
							PO2,
							PO3,
	CII						PO4,
14	Young Designe		Mr.R.	Autote	Appli	Registered	PO5,
14	r Awards	Srinidhi R	Praveen	m	cation	Registereu	PO9,
	2021	Sneha V S					PO10,
							DO11
							PO11,
							PO12.
<u> </u>		<u> </u>	<u> </u>	<u> </u>	l	<u> </u>	

			PSO1,P
			SO2,PS
			O3



ACADEMIC YEAR 2020-2021



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

TNSCST PROJECTS (2020-2021)

S.	Title of the		Departm	Funding	Date of	Amount
No	Project	Investigators	ent	Agency	Application	(lakhs)
	BORDER	SWETHA.G,				
	CROSSING	SIVAGAMI.K,				
	ALERT TO	SRIKALA.V,				
1	SOLDIERS	Dr.M.DEVARAJU	ECE	TNSCST	21.01.2021	0.0780
	Message					
	sharing					
	through					
	optical	S.				
	communicatio	VenkataSubram				
	n using cipher	anian				
	encryption	S. Vishwesh				
	method in	Vaideeswaran,				
3	python.	Dr.M.DEVARAJU	ECE	TNSCST	21.01.2021	0.1
		AARTHI K				
		DARSHAN S				
	FIREFIGHTER	KARAN S, Mrs.				
	SAFETY USING	S. Caroline				
3	IoT	Jebakumari	ECE	TNSCST	21.01.2021	0.04545
	Real time	Durgavani C				
	Automated	Indiramalinee				
	CPR device	Jane Carline M				
	based on	, Mrs. S.				
	Arrhythmia	Caroline				
4	Detection	Jebakumari	ECE	TNSCST	21.01.2021	0.061
	0-0-110-					
	GESTURE	ADITYAA.V				
	RECOGNITION	ABISHEK.S				
	ROBOT	ANURUTH				
_	ASSISTING	SREE.V,	505	TNICOCT	24 24 2224	0.4077
5	CAFETERIA	DR.D.JESSINTHA	ECE	TNSCST	21.01.2021	0.1077

	PEDDLER'S					
	MOTION	SANJAY R,				
	DETECTION	THARUN				
	KIT WITH	KUMAR V,				
	QUICK	TARUN ABHAYE				
	RESPONSE	Т,				
6	TECHNOLOGY	DR.D.JESSINTHA	ECE	TNSCST	21.01.2021	0.09
	Classification		_			
	of different					
	plant leaf					
	diseases using					
	multiple					
	Convolutional	SUPRAJAA.A.P				
	Neural	SOFIA				
	Network and	FARHEEN.B				
	Image	SHIVALI.S, A. T.				
7	processing	Madhavi	ECE	TNSCST	21.01.2021	0.09999
-	A cyber safety					0.0000
	device to	Selva Kavya.A				
	facilitate and	Senthurammal.				
	take care of	V				
	people during	Shruthilaya.A,				
	quarantine	Mr.R.PRAVEEN				
8	using IOT.	KUMAR.	ECE	TNSCST	21.01.2021	0.05999
	3 3	ANUSHA A	_			
		GOLDEN EV				
		BRAWIN				
	IOT based	GOKUL				
	COVID-19	KRISHNAN R,				
	testing booth	Mr.R.PRAVEEN				
9	automation	KUMAR.	ECE	TNSCST	21.01.2021	0.06499
		Lasya Ippagunta				
	Personal	Preethi				
	Assistant for	Subbusamy				
	the Visually	Roshni . S, Dr. K.				
10	Impaired	Rahimunnisa	ECE	TNSCST	21.01.2021	0.0900
	Design of Easy					
	Appliance					
	Control	Rahavee P				
	System Based	Nethra M				
	on Virtual	Madhan B, Dr.				
11	Reality	Resmi R Nair	ECE	TNSCST	21.01.2021	0.1200
	ARTIFICIAL					
	INTELLIGENCE					
	BASED					
	CONFERNCE					
	AUTOMATION					
	SYSTEM					
	INVOLVING	Krishnapriya				
	IMAGE	Prineetha R, Dr.			04.04.555	
12	RECOGNITION	Resmi R Nair	ECE	TNSCST	21.01.2021	0.1000

	SECURE AND	1		1	I	l I
	ROBUST					
	FRAGILE					
	WATERMARKI	GEETHA PRIYA.S				
	NG SCHEME	HARINI.B				
	FOR MEDICAL					
12		HARINI PRIYA.R,	FCF	TNICCCT	24 04 2024	0.10
13	IMAGES	Dr. Resmi R Nair	ECE	TNSCST	21.01.2021	0.18
	Multitasking	VASANTHAMAT				
	robot for	HY R				
	farmer	SAJITHA BANU				
	assistance	R, SHOMIKA N,				
14	using IOT	Dr. S. Saranya	ECE	TNSCST	21.01.2021	0.925
	Speech					
	Emotion					
	Recognition					
	using					
	Machine	S.Supriya				
	Learning for	V.Sangeetha				
	Human	M.Sivaranjani,				
	Computer	Dr. Senthamizh				
15	Interaction	Selvi R	ECE	TNSCST	21.01.2021	0.055
	Novel Speech	P. SATHISH				
	Enhancement	KUMAR				
	System for	R. SRI KRISHNA				
	Hearing	S. SURYA RAO,				
	Impaired	Dr. Senthamizh				
16	Listeners	Selvi R	ECE	TNSCST	21.01.2021	0.18
	SPORTS					
	GROUND					
	AUDIENCE					
	HEALTH					
	MONITORING	Aiswarya S,				
	SYSTEM	Ashwin R ,				
	[FOR COVID-	Dharshini V , A.				
	19] USING	Usha				
	SMART	33.10				
	WIRELESS					
	SENSOR					
17	NETWORK		ECE	TNSCST	21.01.2021	0.07535
1/	INCINVOIN	ТАМІСЦА	LCL	1143631	21.01.2021	0.07333
		TANISHA				
	SKIN CANCER	S				
	DETECTOR	SHALINI S				
	AND	SUBHALAKS				
	CLASSIFIER	HMI V S,				
	USING	· ·				
	DEEP	Arivuselvam				
18	LEARNING	В	ECE	TNSCST	21.01.2021	0.06

19	COVID Safety System with Optimum Energy Management Facility	Vignesh.M Saisankar.S, Dr. Senthamizh Selvi R	ECE	TNSCST	21.01.2021	0.1915
	Automatic					
	Drip Irrigation					
	for Terrace					
	and Indoor					
	Garden using	R.SARAVANAKU				
	Internet of	MAR				
	Things(IoT)	P.SRISIVARAM				
	for rural	S.YOGESWARA				
20	TAMILNADU	N, K. Abirami	ECE	TNSCST	21.01.2021	0.13
	A Server -					
	client	CHANDRU .V				
	Application	HARIOHM				
	aiding the	VARUSH				
	necessities of	HARIHARAN .K,				
21	the needy	P. Bini Pala	ECE	TNSCST	21.01.2021	0.0705



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

e-Sim Contest





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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

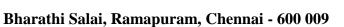
PROJECT DAY (2020)

SL.NO.	PROJECT TITLE	TEAM MEMBERS	MENTOR
1	Sign language to text conversion using Machine Learning	Lasya Ippagunta Reshmika Dhanapani	Gophika .T
2	Deep Learning Based Emotion Recognition through EEG for Autism affected person	Mohamed Suhail.B Ashish Babu	Dr. S. Sudha
4	Humanoid Robo Arm	Gokul B Darshan	Dr. R. Senthamizh Selvi
5	Audio Transmission and reception via light using photodetector	 S. Venkatasubramanian R. Sanjay V. Tharun Kumar S. Vishwesh Vaideeswaran 	Bindu Babu
6	Medsol- Digitization of Medical Solutions	B.P.Sibi	Mr. A. Ponraj
7	Voice Controlled Home Automation	Subhalakshmi Sivaranjani	Dr. R. Senthamizh Selvi
8	BlueTooth Controlled Automobile	Supriya	Dr. D. Jessintha
9	Make it Simple- Digital Clock	Ashven Raju P.A Harish V	Dr. S. Sudha

			Jashwanth A D	
10	Electric	Air	Tharun , Suriya	Bindu Babu
	Purifier		Rao	



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PUBLICATIONS (2020-2021)

TYPE OF PUBLICATION	COUNT
SCOPUS JOURNAL	6
SCI/WOS JOURNAL	6
INTERNATIONAL JOURNAL	55
NATIONAL JOURNAL	Nil
INTERNATIONAL CONFERENCE	54
NATIONAL CONFERENCE	NIL

S.	Name of the		Impact	
No	Authors	Details of the Publication	Factor	Citations
1	D. Indumathy, and S. Sudha	"Delineation of Blood Vessels in Coronary Artery Region for Classification of Different Types of Plaques", Journal of Biomaterials and Tissue Engineering, ISSN: 2157-9083 (Print): EISSN: 2157-9091 (Online), Vol. 10, Issue 5 Aug-20, 589–602,	0.824	1
	B. Jesvin Veancy, P.	"Fractional Frequency Reuse with Enhanced Scheduling Strategies", Wireless Personal		
2	Yogesh	Communications, Nov. 2020	1.2	5

3	Resmi R Nair	"An Efficient Food Quality Analysis Model (EFQAM) using the Internet of Things (IoT) Technologies", Microprocessors and Microsystems, https://doi.org/10.1016/j.micpro.2021.103972 January 2021.	1.161	2
	Ranjana Durai,			
	Krithika	"Predictive Analytics Using Deep Neural Networks",		
	Selvam,	IT in Industry, ISSN: 2204-0595, Vol. 9, No.2, 2021,		
4	Dr.S.Saranya	May-21, 1123 - 1127.	-	-
		"IoT-Driven Model for Collaboration Based On		
		Learning Paradigms", International Journal of		
	Praveen	Aquatic Science, 2008-8019, Volume 12, Issue 2,		
5	Kumar R	1725 - 1731.	7.86	-
		"Stress Monitoring System using Sensors for		
	Dr. R.	Drivers", Bioscience Biotechnology Research		
	Senthamizh	Communications P-ISSN: 0974-6455 E-ISSN: 2321-		
6	selvi	4007, Vol 13 No 13 (2020), pp-317-322.	-	-

ACADEMIC YEAR 2019-2020



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PUBLICATIONS (2019-2020)

TYPE OF PUBLICATION	COUNT
SCOPUS JOURNAL	3
SCI/WOS JOURNAL	11
INTERNATIONAL JOURNAL	25
NATIONAL JOURNAL	Nil
INTERNATIONAL CONFERENCE	7
NATIONAL CONFERENCE	NIL

S.	Name of the		Impact	
No	Authors	Details of the Publication	Factor	Citations
1	D.Sivakumarand V.Murugan,	"Integrated PTS and OSLR (IPTS-OS-LR) Technique for Reducing PAPR in FBMC-based OQAM Systems of MIMO-OFDM", Journal of Electrical Engineering, DOI:10.17265/2328- 2223/2018.02.	0.93	-
2	T. H. Feiroz Khan and D sivakumar	" An obstacle aware mobile sink path strategy in WSN", Indonesian Journal of Electrical	1.294	-

		Engineering and computer science (ISSN: 2502-4752) Scopus, Vol.15, no.2, pp.879-887,2019.		
3	N.Noor Alleema and D.Sivakumar	"Cooperative and fresher encounter algorithm for reducing delay in MANET", Indonesian Journal of Electrical Engineering and computer science (ISSN:2502-4752), Scopus,.pp:1258-1265,2019.	1.294	-
4	N.Noor Alleema and D.Sivakumar	"Volunteer nodes of ant colony optimization routing for minimizing delay in peer to peer MANETs", Peer to Peer Networking and Applications, Springer, 2019	3.488	5
5	Sri Venketeswaran and D.Sivakumar	"Elliptic Curve Integrated Encryption Scheme combined HACH - PSO algorithm for Energy Balance and Secure Data Aggregation in Wireless Sensor Network", Journal of electrical Engineering, Vol.4,, 2019	0.93	-
6	N.Legapriyadharshini and D.Sivakumar,	"Enduring and Enhancing A New Adaptive priority based algorithm to maintain QoS for real time data communications in wireless mesh networking", Journal of Electrical Engineering, Vol. 20, Edition 1, 2020.	0.93	-
7	D. Sivakumar,	"Stepped Slot Patch Antenna with Copper Ground Plane and Solar Cell Ground Plane for Future Mobile Communications", Progress In Electromagnetics Research C,Vol. 98, 187–198, 2020	2.949	2
8	Sriram S. R, Bindu B,	"A physics-based model for LER-induced threshold voltage variations in double-gate MOSFET", Journal of Computational Electronics, 10.1007/s10825-020-01474-w	1.5	3
9	S. UmaMaheswari, V. SrinivasaRaghavan	"Lossless medical image compression algorithm using tetrolet transformation", Journal of Ambient Intelligence and Humanized Computing, Feb. 2020,,https://doi.org/10.1007/s12652-020-01792-8	4.5	18
9	V.	Computing, Feb. 2020,,https://doi.org/10.1007/s12652-020-	4.5	

		"Performance Studies of MIMO Based DCO OFDM in Underwater Wireless Optical Communication Systems", Journal of Marine Science and Technology, Springer, ISSN1573-		
	R. Hema, S. Sudha	689X (Print) ISSN 0948-4280, 4-7, 2020.		
10	and K. Aarthi	https://doi.org/10.1007/s00773-020-0072	1.845	9
	A.Ponraj,	"Software-Defined Multilayered Admission Control for Quality of Service Assurance in Mobile Ad-hoc Networks"Wireless Communications and Mobile Computing, Wiley,pp.1-23, 2020,		
11	K,Kathiravan,	https://doi.org/10.1155/2020/2989751	1.396	3