

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

PATENT DETAILS

Faculty Name	Title of the Innovation	Indian / International	Self / Institutional Patent	Status (Published/ Awarded)	Published on DD/MM/YY	Awarded on DD/MM/YY
Dr.N.M.Mary Sindhuja	Compact Space Filling Curve Based RF MEMS Phase Shifters For 5G Applications	Indian	Self	Published	31/12/2021	Yet to be granted
Mr.R.Rajprabu Mr.R.Ashok	Wireless Sensor Network for Long-term Environmental checking for Internet of Things Application	Indian	Self	Published	11/01/2022	Yet to be granted

COPYRIGHTS DETAILS

Name of the Applicants	Copyright Type	Date of Filing	Status
Mr.S.Alwyn Rajiv	Literary/ Dramatic Work	09/06/2022	Applied
Mrs.P.Ramalakshmi Mr.S.Alwyn Rajiv Mr.K.Ganesan Mr.T.Hari Prasath Mr.R.Ganesan	Lab Manual	14/6/2022	Applied

FUNDED PROJECTS

Name of the Principal Investigator/ Co-Investigator (if applicable)	Department of the Principal Investigator / Co-Investigator	Name of the Funding Agency	Type (Government/Non-Government)	Funds provided (INR in lakhs)	Month and Year of receiving the grant	Duration of the Project	Ongoing/ Completed
Mr.S.Wesley Moses Samdoss	ECE	TNSCST	Government	0.075	18/3/2019	3 months	Completed
Dr.N.M.Mary Sindhuja	ECE	TNSCST	Government	0.075	14/3/2022	3 months	Completed

SEMINAR GRANTS RECEIVED

Faculty Name	Seminar / Conference / Workshop /	Sponsor (if any)	Title	Amount (in Rs.)
Dr.R.SureshBabu Mrs.T.Prathiba	FDP	AICTE ISTE	AICTE – ISTE Induction / Refresher Program conducted in 2018 on “Pedagogical Initiatives in Outcome based Education” Date: 18.06.2018 to 23.06.2018	3,00,000
Dr.R.SureshBabu Mrs.T.Prathiba	FDP	AICTE ISTE	AICTE – ISTE Induction / Refresher Program conducted in 2021 on “Next Generation Computing and its Application (Artificial Intelligence, machine Learning, Deep Learning and Data Science” Date: 18.12.2021 to 24.12.2021	93,000

CONSULTANCY DETAILS

Financial Year	Name of faculty (Chief Consultant)	Client Organization	Title of Consultancy of project	Amount received (in Rupees)
2021-2022	Dr.R.Sureshbabu Mr.R.Ashok	Exam cell and Sever room, Kamaraj College of Engineering and Technology	Automatic AC control system	3,000
2021-2022	Dr.R.Sureshbabu Mr.R.Ashok	Department of ECE Kamaraj College of Engineering and Technology	Hand Sanitizer	1,000
2019-2020	Dr.R.Sureshbabu Mrs.V.Jeyalakshmi Mr.S.Wesley Moses Samdoss	Amogaa Products Pvt. Ltd, Madurai	Smart Bin	1,01,000
2019-2020	Dr.R.Sureshbabu Mr.S.Wesley Moses Samdoss	Idhayam Oil Mills, Virudhunagar	Under Weight Pouch Cutting Machine	1,04,054
2019-2020	Dr.R.Sureshbabu Mr.S.Wesley Moses Samdoss	Kamaraj College of Engineering and Technology	Sanitary Napkin Vending Machine	10,000
2019-2020	Dr.R.Sureshbabu Mr.S.Wesley Moses Samdoss	Kamaraj College of Engineering and Technology-Sports Complex	Score Board Display	10,000
2018-2019	Dr.R.Sureshbabu Mrs.V.Jeyalakshmi Mr.T.Palaniappan	Amogaa Products Pvt. Ltd, Madurai	Smart Bin	59,000

FACULTY PUBLICATIONS IN REFERRED NATIONAL / INTERNATIONAL JOURNALS
(IN LAST 5 YEARS)

Title of the paper	Authors Name	Journal Name & Year of Publication	D.O.I No
Blockchain - Enabled Smart Surveillance System with Artificial Intelligence	Paras Jain SunithaDwivedi Adel R Alharbi Dr. R.SureshBabu DeveshPratap Singh SajjadShaukat Jamal Daniel Krah	Hindawi - Wireless Communication and Mobile Computing-2022	https://doi.org/10.1155/2022/2792639
Human-Computer Interaction for Recognizing Speech Emotions Using Multilayer Perceptron Classifier	Abeer Ali Alnuaim Mohammed Zakariah Prashant Kumar ShuklaAseelAlhadlaq WesamAtefHatamleh HussamTarazi Dr.R.SureshBabu RajnishRatna	Hindawi - Journal of Healthcare Engineering-2022	https://doi.org/10.1155/2022/6005446
Effective Technical for Noise Removal and Emotion Recognition in Speech Signals Using Cat Swarm Optimized Spiking Neural Networks	Mrs.C.Revathy Dr.R.SureshBabu	World of Scientific Fluctuation and Noise Letters - 2022	10.1142/S0219477522500195
Miniaturized Four Port MIMO Antenna for Automotive Communications	Mr.M.Ramesh Dr.C.Geetha Priya	Analog Integrated Circuits and Signal Processing- 2022	http://doi.org/10.1007/s10470-022-01988-2
Hybrid Grey Wolf Optimization with Cuckoo Search-Based Optimal Channel Estimation for Energy Efficient Massive Multiple Input Multiple Output	Dr.G.Indhumathi Mrs.S.Nisharani	Wiley - International Journal on Communication System - 2022	https://doi.org/10.1002/dac.5106
Modelling Of Compact Dmtl Phase Shifter Using Quasi-linear Reproducing Kernel Particle Method	Dr.S.Kanthamani Dr.N.M.Mary Sindhuja	Gradiva Review Journal-2022	10.37897.GRJ.2021.V8I7.22.50058
CCSK - DHKEP: Data Confidentiality using Improved Security Approaches in Cloud Environment	Mr. L.Prabhahar Dr.R.Sukumar Dr.R.SureshBabu	Wireless Personal Communications-2021	https://doi.org/10.1007/s11277-021-09104-9
Design of Space Filling Curve-based Metamaterial Patch Antenna for Brain Tumor Detection	Dr. N.M. Mary Sindhuja K. Deepika V. Meera Devi M. Ganka Devi M. Ananthi	Journal of Electronic Design Technology-2021	10.37591/JoEDT

Adaptive Rag-bull Rider: A Modified Self-Adaptive Optimization Algorithm for Epileptic Seizure Detection with Deep Stacked Auto encoder using Electroencephalogram	Mr.Prabin Jose J Dr.M.Sundaram Dr.G.Jaffino	Biomedical Signal Processing and Control-2021	http://doi.org/10.1016/j.bspsc.2020.102322
Eagle Eye CBVR Based on Unique Key Frame Extraction and Deep Belief Neural Network	Mrs.T.Prathiba Dr.R.ShanthaSelvaKumari	Wireless Personal Communication-2020	https://doi.org/10.1007/s11277-020-07721-4
Combined global and local semantic feature-based image retrieval analysis with interactive feedback	Mr.AAnandh Dr.K Mala Dr.R Suresh Babu	Measurement and Control-2019	10.1177/0020294018824122
Hypothesis-based vertex shift method for embedding secret logos in the geometric features of 3D objects	Arthy R Mala K Dr.R.SureshBabu	Turkish Journal of Electrical Engineering & Computer Sciences - 2019	10.3906/elk-1810-62
Efficient Framework for Identifying, Locating, Detecting and Classifying MRI Brain Tumor in MRI Images	Mrs.T. Pandiselvi R. Maheswaran	Journal of Medical Systems -2019	10.1007/s10916-019-1253-1
Multifocus Image Fusion Scheme Based on Discrete Cosine Transform and Spatial frequency	Dr.R.Suresh Babu E.Vakaimalar K.Mala	Multimedia Tools and Applications (Springer) - 2019	http://doi.org/10.1007/s11042-018-7124-9
Gender Classification from Face Images by Mixing the Classifier Outcome of Prime, Distinct Descriptors	Mrs.A.Geetha M.Sundaram B.Vijayakumari	Soft Computing-2019	http://doi.org/10.1007/s00500-018-03679-5
Source compression in two-way two-relay network using compute-and forward relaying	Mrs.V. Jeyalakshmi S. Tamil Selvi	International Journal of Electronics and Communications (AEÜ)-2018	https://doi.org/10.1016/j.aeue.2018.09.001
A Novel Semi-Folded Parallel Successive Cancellation-Based Polar Decoder For Optimal-Register Allocation	Mr.M.Ramesh G.Indumathi V.P.M.B.Aarthi	The Journal of Super Computing-2018	https://doi.org/10.1007/s11227-018-2519-y
Three Bit DMTL Phase Shifter for Phased Array Antennas	Mrs.N.M.Mary Sindhuja S.Kanthamani	Journal of Circuits, Systems and Computers - 2019	https://doi.org/10.1142/S0218126619501123
Maximum power extraction in solar renewable power system - a bypass diode scanning approach	D. Prince Winston B. Praveen Kumar S.Cynthia Christabel Ali J. ChamkhaRavishankarSathy	Computers and Electrical Engineering-2018	https://doi.org/10.1016/j.compeleceng.2018.02.034

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Robust detection of real-time power quality disturbances under noisy condition using FTDD features	O. Jeba Singh D. PrinceWinston B. ChittiBabu S. Kalyani B. Praveen Kumar M. Saravanan S. Cynthia Christabel	Journal for Control, Measurement, Electronics, Computing and Communications-2019	https://doi.org/10.1080/00051144.2019.1565337
A Multi Resolution Transform for Thermal Face Recognition Using Random Forest Classifier	Murugesan, ChengathirSelvi Karuppiah, Muneeswaran; Mrs.Prathiba T.	Journal of Computational and Theoretical Nanoscience - 2018	https://doi.org/10.1166/jctn.2018.7160

RESEARCH AWARDS

S.No	Staff / Students Name	Fellowship/ Awards/Honours (Specify in detail with awarding body)
1	Mr.T.Palaniappan Dr.R.SureshBabu	Awarded the First runnerup prize amount of Rs.50,000/- project contest conducted by CII, Madurai.Title of the project - Vision based tyre sorter
2	Mr.T.Palaniappan Dr.R.SureshBabu	GRLyChee design contest - Amount Rs.1,00,000/- .sponsored by Honeywell - Conducted by GRLychee design contest .Title of the project - Vision based Tyre sorting system using GRLychee
3	Dr.R.SureshBabu	Best Reviewer Award, ETRI Journal, korea - prize amount of 1000\$
4	Dr.C.Geethapriya	TNSCST Young ScientistFellowship Award -TNSCST
5	Dr.C.Geethapriya	Young Scientist Fellowship - IIT Kharagpur
6	Dr.V.Jeyalakshmi	Best Paper Award - Hotel at San Diego,USA through virtual Participation
7	Ms.Vidya P Janaki	Summer Research Fellowship Programme-2015 IIT Delhi
8	Ms.Vidya P Janaki	Summer Research Fellowship Programme-2018 IIT Gandhinagar
9	Dr.R.SureshBabu Dr.V.Jeyalakshmi Dr.T.Pandiselvi Dr.N.M.Mary Sindhuja	Kamarajar Award-Rotary Club, Virudhunagar
10	Mr.P.Aravind	Summer Faculty Research Fellowship Programme-2020 IIT Delhi (online)
11	Dr.R.SureshBabuJ.Sahaya Joan NicholaM.A.Harita, M.Sarayu(IV ECE Students)	India International Science Festival 2021 won cash prize Rs.15,000/-
12	Dr.R.SureshBabu	AdarshVidyaSaraswathiRashtriyaPuraskar Award by Global Management Council,Ahemedabad
13	R.Ashok	AdarshVidyaSaraswathiRashtriyaPuraskar Award by Global Management Council,Ahemedabad

14	Dr.N.M.Mary Sindhuja	WIE-Three Minutes Thesis Challenge Award -Indian conference on Antennas and Propagation (InCAP-2021) organized by Malaviya National Institute of Technology, Jaipur won cash prize Rs.10,000/-
15	Mrs.P.Reba	Summer Faculty Research Fellowship Programme-2016 IIT Delhi
16	Mrs.A.J.Bhuvaneshwari	1st International Graduate Conference of Built Environment and Surveying at UniversitiTeknologi Malaysia (2019)
17	Dr.C.Geethapriya	Session Chair: Computer Network and Communication Technology at IACT International Conferences held in Singapore November 21-23,2015
18	Dr.N.M.Mary Sindhuja	Received Best Young Faculty Award from TamilNadu Association of Intellectuals and Faculty (TAIF) and GRABS Educational Charitable Trust,Chennai
19	Dr.T.Prathiba	Received Best Faculty Award from TamilNadu Association of Intellectuals and Faculty (TAIF) and GRABS Educational Charitable trust,Chennai
20	Dr.T.Pandiselvi	Received Best Young Scientist Award from TamilNadu Association of intellectuals and faculty (TAIF) and GRABS Educational Charitable trust,Chennai