



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Patents

(Published in Journal / Awaiting Examination)

2022-2023

S.No.	Title of the Invention	Address of Patents Office	Name of the Faculty/ Applicant	Application No.	Type of Application	Status
1.	Detection of Spoofing Vulnerability in Revolutionary IoT networks to Augment Security Mechanism	Canada Copyright Office, Canada	Dr.C.Gnana Kousalya Dr.G.Rohini Mr.J.Bino	1195393	Copyright	Registered
2.	A Machine Learning Algorithm to assess autism and its symptoms in Computer vision technique tools	Indian Patent Office, Chennai	Dr.C.Gnana Kousalya Dr.G.Rohini	20224104 6403	Ordinary	Published
3.	Scheduling of Millimetre Wave (mmWave) and Terahertz (THz) Communications in Cellular-Connected UAV Networks with Integrated Sensing, Communication and Control	Indian Patent Office, Chennai	Dr C Gnana Kousalya Dr.G.Rohini Dr Tephillah S Dr M Senthil Murugan Dr Angayarkanni.V Dr Mohan C Mrs. S Swetha Mr. J Bino Mrs. Silva Deena J Mr. Raghul V	20224106 5205	Ordinary	Published
4.	Smart Paper Weight with Productivity Tracking Using IoT	Indian Patent Office, Chennai	Dr.P.G.V. Ramesh	379281- 001	Ordinary	Published
5.	Artificial Intelligence based Automatic Health care system to monitor and prevent Blood pressure and body temperature for all ages of people using Deep Learning algorithms for Smart Health care Management system	Indian Patent Office, Chennai	Dr.G.S.Uthaya kumar	20224104 6634	Ordinary	Published

6.	Artificial Intelligence and IoT based Automatic smart Healthcare system to Prevention and Detection of Dengue, Malaria and other types of viral fevers using Data mining and Deep Learning Algorithms	Indian Patent Office, Chennai	Dr.G.S.Uthaya kumar	20221104 5286	Ordinary	Published
7.	System for Blind Person Intelligent Walking Stick by Integrating Machine Learning and IoT	Indian Patent Office, Chennai	Dr.Samayaraj Murali Kishan Lal	20224106 4380	Ordinary	Published
8.	An ANN for Health Monitoring System	Indian Patent Office, Chennai	Dr. Bhuvana B P Ms.A.Jemima HavilaCatherine G.Sneha	20224106 7063	Ordinary	Published
9.	Improved handling of Electronic Messages with attachments in the cybersecurity system	Indian Patent Office, Chennai	Dr.Jeba Johannah Samuel Dr.C.T.Kavitha Dr.M.Senthil Murugan	20224106 6081	Ordinary	Filed
10.	Artificial Intelligence Based Approach to Predict the Impact of Breast Cancer Using the Algorithms of WSN and Image Processing Techniques	Indian Patent Office, Chennai	Dr.M.V.Karthikeyan	20224106 9848	Ordinary	Published
11.	AI based Smart Chair for Automatic Posture Correction and Personal Fitness Monitoring	Indian Patent Office, Chennai	K. Immanuel A. Dinesh Kumar	20234101 5419	Ordinary	Published

2021-2022

S.No.	Title of the Invention	Address of Patents Office	Name of the Faculty/ Applicant	Applicat ion No.	Type of Application	Status
1.	IoT and Machine Learning based System to Identify Drowning Occurrences in Swimming- Pools	Indian Patent Office, Chennai	Dr.C.Gnana Kousalya Dr.G.Rohini Mrs.S.Tephillah Mrs.G.Akilandeswari Mr.J.Bino	2022410 01812	Ordinary	Published
2.	IoT based Contraption Observation and Electrical Control Structure	Indian Patent Office, Chennai	Dr.C.Gnana Kousalya Dr.G.Rohini	2021410 61582	Ordinary	Published
3.	Design Of Penta-Band Bandpass Filter with Enhanced Selectivity Employing Square Complementary Split ring resonator	Indian Patent Office, Chennai	Dr.P.G.V.Ramesh	2022410 01410	Ordinary	Published
4.	Separation of Glass / Plastic Products using FPGA	Indian Patent Office, Chennai	Dr.C.T.Kavitha Dr.J. Jeba Johannah Samuel Mr.M.Senthil Murugan Mrs.P.Princy Magdaline Mrs.A.Maria Christina Blessy	2022410 04742	Ordinary	Published
5.	Dynamic Model for Rainfall Prediction and Crops Cultivation Using Convolution Neural Network	Indian Patent Office, Chennai	Dr.P.G.V.Ramesh Dr.Samayaraj Murali Kishan Lal Mr.D.Suresh	2022410 06887	Ordinary	Published
6.	An IoT based Health Monitoring System to facilitate Treatment during Pandemic	Indian Patent Office, Chennai	Dr.M.V.Karthikeyan	2022410 05440	Ordinary	Published
7.	Designing a WSN Platform for Long term Environmental Monitoring for IoT Applications	Indian Patent Office, Chennai	Mr.D.Suresh	2021410 61248	Ordinary	Published
8.	Embedded Sensor Based Vehicle Door Locking System for avoid Accident	Indian Patent Office, Chennai	Ms.A.Gloria Mrs.J.Silva Deena Ms.S.Sathiya Priya Ms.G.Sneha Ms.Jemima Havila Catherine	2022410 04746	Ordinary	Published

2020-2021

S.No.	Title of the Invention	Address of Patents Office	Name of the Faculty/ Applicant	Application No.	Type of Application	Status
1.	Electronic Token for Queue Management	Indian Patent Office, Chennai	St. Joseph's Institute of Technology	337061-001	Ordinary	Granted
2.	Handy Electronic Token for Queue Management	Indian Patent Office, Chennai	St. Joseph's Institute of Technology	337104-001	Ordinary	Granted
3.	System and Method for Fuzzy-Based Control and Measurement of Temperature and Humidity for Greenhouse	Patent office, Australia	Dr.C.Gnana Kousalya Dr.G.Rohini	2021100311	Ordinary	Granted
4.	IoT Based Touch Detecting Hand Glove for Post Pandemic Safety	Patent office, Australia	Dr.C.Gnana Kousalya Dr.G.Rohini	2020102232	Ordinary	Granted
5.	IoT based smart wearable child and women TM s safety device	Indian Patent Office, Chennai	Dr.P.G.V.Ramesh	202041049152	Ordinary	Published
6.	Internet of Things (IoT) based monitoring system for agriculture	Indian Patent Office, Chennai	Dr.A.Akilandeswari Dr.D.Sungeetha	202041056142	Ordinary	Published
7.	Sensor Circuit for Lung Vital Signs (Patent No-397583)	Indian Patent Office, Chennai	Dr.G.S.Uthayakumar	202041031487	Ordinary	Granted
8.	An Artificial Intelligent Based Interactive Surveillance System	Indian Patent Office, Chennai	Mr.J.Bino (Co-Inventor)	202041042000	Ordinary	Published

2019-2020

S.No.	Title of the Invention	Address of Patents Office	Name of the Faculty/ Applicant	Application No.	Type of Application	Status
1.	Gas Lighter with Leakage and Level Monitoring System	Indian Patent Office, Chennai	Dr.C.Gnana Kousalya Dr.G.Rohini	202041014653	Ordinary	Published
2.	Physiological Value Based Implanted Medical Device Security System	Indian Patent Office, Chennai	Mr.M.V.Karthikeyan	202041003326	Ordinary	Published
3.	Speed And Safety Monitoring Apparatus for Two Wheeled Vehicles	Indian Patent Office, Chennai	Dr.G.S.Annie Grace Vimala Dr.A.Akilandeswari Dr.D.Sungeetha	201941049148	Ordinary	Published
4.	Indicative Phonological and Visual Recognition System	Indian Patent Office, Chennai	Dr.P.G.V.Ramesh	201941023060	Ordinary	Published FER Reply filed