

**Sri Krishna College of Engineering and Technology  
Coimbatore**

**Patent details for the Year 2020-2021**

**Patent Details**

Sl. No.	Patent Details	Patent status	Patent No.	Date of Award
1	A RNN based spatio temporal data mining model for urban road planning D.Maruthachalam	Granted	2020104112	2/17/2021
2	Human Action Recognition from Static Video Based on Optical Flow Analysis P.Saravanakumar	Published	202141009504 A	12/3/2021
3	Utilization of Sensors in Concrete to Monitor the Curing Process and Compressive Strength of Concrete D.Maruthachalam	Published	202141008996 A	12/3/2021
4	An Efficient Feature Selection for Color Face Recognition Using Hidden Markov Model and Particle Swarm Optimization with Image Key Generation Mr.V.Arulkumar, Dr.P.Vivekanandan Dr.C.Selvan Dr.Albert raj Dr.K.N.Sivabalan Dr.V.Anandkumar	Published	202041035952 A	04.09.2020
5	An Intelligent Technique for Uniquely Recognizing Face and Finger Image Using Learning Vector Quantization (LVQ)-Based Template Key Generation Mr.V.Arulkumar, Dr.P.Vivekanandan Dr.C.Selvan Dr.Albert raj Dr.K.N.Sivabalan Dr.V.Anandkumar	Published	202041035826 A	04.09.2020
6	An Efficient Air Conditioner with Self Sanitizing Techniques Dr.J.Janet Mr.Krishnamurthy Mr.Vinoth Kumar	Published	2020102996	24.10.2020

7	A New 2R Approach: The Mobile Electronic Waste in INDIA'S Automotive Mr.S.Sureshkumar Dr.J.Janet Dr.P.Kavitha Rani Dr.S.Venkatalakshmi	Published	202041048068A	13.11.2020
8	Modelling of an Efficient Solar Module Using Pervoskite V.Meenakshi Dr.V.Vijeya Kaveri(SK CET) Dr.Anbarasi	Published	202141001124	11.01.2021
9	An Intelligent Acoustic Serenity using Self Adjustable User Friendly IoT Embedded Microphone Dr.J.Janet Dr.S.Balakrishnan Dr.P.Kavitha Rani	Granted	2020103899	27.01.2021
10	PERSONAL ASSISTANT SYSTEM AND WEARABLE GADGET FOR ELDERLY PEOPLE AND ALZHEIMER PATIENTS Dr.D.Prabha Dr.J.Janet Dr.K.Sasi Kala Rani Mr. Shaliq Nigal (Final year CSE) Ms. Sadhana Sri S A S (Final year CSE) Ms. Sanmugapriya K (Final year CSE) Mr. Adithya Menon S (Third year CSE) Mr. Jeganprakash B (Third year CSE)	Published	202141006321 A	19.02.2021
11	Intra - Body communication in Biomedical Applications Dr.K.Srinivasan Ms.N.Vijayalakshmi Dr.G.M.Tamilselvan Mrs.V.R.Azhaguramyaa	Published	202141010799	26.03.2021
12	An Artificial Intelligence Based System for Proactive Network Security Mr.M. Manikandan	Granted	2020104405	21.04.2021
13	INTELLIGENT ENERGY RECYCLE SYSTEM THROUGH CEILING FAN Dr. S. A. SIVAKUMAR Dr. B. MARUTHI SHANKAR Mr. DHARMESH DHABLIYA Mrs. RITIKA DHABLIYA Dr. NITIN P. SHERJE Mr. AMOL DHUMANE Mr.T.Vignesh	Published	202041023191	12.06.2020

14	SMART COGNITIVE RADIO TECHNOLOGY-BASED NETWORK V2V COMMUNICATION Mrs. B. AnishFathima Ms. P. Vinesha Mr. G. Siva Mr. N. Gowtham <del>Mr. V. Srilakshmi</del>	Published	202041041648	09.10.2020
15	ACCURATE VIBRATIONAL SPECTROSCOPIC WAVENUMBER DETERMINATION SYSTEM Dr.Selvaraj Shalini Packiam Kamala Ms.Arumugam Lakshmi Priya Ms.Narayanan Sathiyapriya Dr.Thirumalai Brindha Mrs. Dhandapani Tharani Ms.Deva Aruldas Janeera Ms.Duraisingh Ruth Anita Shirley	Published	202041044147	23.10.2020
16	Acoustic Soft Noise Cancellation in Headphone using SHARC Dr J Rejina Parvin Mr N Jeeva Mr D Sathish Kumar Ms U Vanitha Dr S Karthika Dr NM Massoodha Banu Dr I Bhagyalakshmi Mr R Rajkumar Ms Sushma S Jagtap Ms MD Saranya	Published	202041043299	09.10.2020
17	A CONTACTLESS THERMOSTAT FOR THE MEASUREMENT OF CALIFACTION USING CNN IN PUBLIC AREA DURING PANDEMIC PERIOD Mr.J.R.Dinesh Kumar Dr.Venkatesalu Ramasamy Balaji Ms. K. Priyadharsini Mr. C. Visvesvaran Mr.S.P.Karthi Mr. R. Sarath Kumar Ms. D.V. Soundari Dr. S. Karthika Dr. C. Ganeshbabu Dr.S.A.Sivakumar Dr.S.Chinnapparaj	Published	202041047321	06.11.2020

18	<p>Management of Dense Cloud Removal from Landsat Images Using Deep Neighbour-Pixel Embedding Technique</p> <ol style="list-style-type: none"> <li>1 . R.Rajmohan</li> <li>2 . T.Ananth Kumar</li> <li>3 . K. Veerakumar</li> <li>4 . Puneet Joshi</li> <li>5 . Ahila A</li> <li>6 . Prashanth G K</li> <li>7 . S. Sophia</li> <li>8 . Balaji J</li> <li>9 . S. R. Boselin Prabhu</li> <li>10 . Thangaraja Arumugam</li> </ol>	Published	202041047038	20.11.2020
19	<p>VELOCITY ESTIMATION FROM CYCLE PEDALING BY USING EXTENDED KALMAN FILTER ALGORITHM</p> <p>Patel, R. P.; Chakrabarti, Tulika; Hati, Ananda Shankar; Mahalingam, M.; Saravanan, K. G.; Patel, Ibrahim; Krishna, Patteti; Kumar, Yogendra; Gowrishankar, K.; Kumara, Varuna; Chakrabarti, Prasun and Sophia, S.</p>	Granted	2021102801	7.07.2021
20	<p>Brain Tumor Detection in T1E1 Scan Images using Extended U-Net Framework with VGG-16 Encoder</p> <ol style="list-style-type: none"> <li>1 . R. Rajmohan</li> <li>2 . T. Ananth Kumar</li> <li>3 . Thangaraja Arumugam</li> <li>4 . Hamid Alasadi</li> <li>5 . M. Vargheese</li> <li>6 . Prashanth P A</li> <li>7 . S. R. Boselin Prabhu</li> <li>8 . Prashanth G K</li> <li>9 . S. Sophia</li> </ol>	Published	202041047141	20.11.2020
21	<p>SMART SIGN BOARDS IN NATIONAL HIGHWAYS FOR ROAD SAFETY USING IOT</p> <p>Dr.A.BASEERA  Dr. R. SABITHA  Dr.G.SAHAYA STALIN JOSE  A.JACKULIN MAHARIBA  Dr. BEJOY.B.J  Dr C G RAVICHANDRAN  Mr. BESNET GEORGE  Dr. S. SASIPRIYA  Dr. S. A. SIVAKUMAR</p>	Published	202021048936 A	13.11.2020

22	Smart Ration Automated Teller machine for Pandemic Situations Dr Altaf O Mulani Shrinivas Pandurang Ganjewar Pankaj Suresh Kadu Rahul Nandhakumar Gajanan H Chavhan Dr R Senthil Ganesh Dr S A Sivakumar	Published	202021048830 A	13.11.2020
23	NOVEL APPROACH FOR MEDICAL RECORD & STOCK INVENTORY OPTIMIZATION WITH WOT ENABLED AI PLATFORM 1 . Ms.K. Priyadharsini 2 . Mr. J.R. Dinesh Kumar 3 . Mr.T.Sathish 4 . Ms. N.Nanthini 5 . Ms. D. Devi 6 . Dr.M. Karpagam 7 . Dr.S.Chinnapparaj 8 . Ms.A.Elakya 9 . Mr. Kumararaja Malaisamy 10 . Dr. B. Maruthi Shankar 11 . Dr.S.A.Sivakumar	Published	202041053075	11.12.2020
24	INTERNET OF THINGS BASED AUTOMATIC AND SMART SPEED CONTROL SYSTEM FOR VEHICLES Dr. R. NAVEEN E SUGANYA Dr S SOUNTHARRAJAN Dr.R. SENTHIL GANESH Dr. SREJITH VIGNESH B P Dr.K.MUNUSAMY E.BRUMANCIA Mr.V.NAGARAJ Dr.A.KINGSLY JABAKUMAR Dr. S.A.SIVAKUMAR	Published	202041056460 A	15.01.2021

25	A NOVEL METHOD FOR PREVENTION OF SECURITY ATTACK ON CLOUD MEDICAL DATA USING ARTIFICIAL INTELLIGENCE AND IOT Mishra, Amarnath ; Prashanth G. ; Sophia, S. ; Prabhhu, S.R. Boselin ; Janga, Prasad ; Sreeja Mole S. ; Pandya, Ishan Y ; Addagatla, Ugendhar ; Srinivas, N.	Granted	2021102236	28.04.2021
26	VELOCITY ESTIMATION FROM CYCLE PEDALING BY USING EXTENDED KALMAN FILTER ALGORITHM Patel, R P Chakrabarti, Tulika ; Hati, Ananda Shankar ; Mahalingam, M. ; Saravanan, K G ; Patel, Ibrahim ; Krishna, Patteti ; Kumar, Yogendra ; Gowrishankar, K. ; Kumara, Varuna ; Chakrabarti, Prasun	Granted	2021102801	24.05.2021
27	3D PRINTING AND ADDITIVE MANUFACTURING PROCESS FOR RAPID MANUFACTURING OF CUSTOMIZED BIO IMPLANTS V., Srinivas Viswanth; Awasthi, Shubham; S., Velmurugan; R., Kavim; Dekate, Hiren Madhukar; Khasim, Syed; Bollu, Manas Sai; S., Dinesh Kumar; Mamidala, Kishore Kumar and Arafat I, Sheik	Granted	2020102205	10/21/2020
28	BI-LEVEL ENERGY MANAGEMENT SYSTEM WITH GRID REINFORCEMENT FOR SOLAR ENERGY Mahalingam, M.; Waghmare, Pratik Marutrao; Thakur, Mukesh; Lakshmanan, P.; Kavim, R.; Hati, Ananda Shankar; Gupta, Piyush; Mishra, Payal; Acharya, Subhrajit; Datta, Jinia; P. Rane, Kantilal and Chakrabarti, Prasun	Granted	2021105856	3.11.2021
29	INDUSTRIAL IOT DEVICE MANAGEMENT TECHNIQUE USING LIGHTWEIGHT MACHINE TO MACHINE (LWM2M) Ahirwar, Gajendra Kumar; Korath, Arun; S., Sangheethaa; Ahirwar, Mahendra Kumar; R., Kavim; Kumar, Bammidi Pradeep; Singh, Bikram Jit; Sharma, Ashwani; Kalra, Gourav and Katta, Shyam Kumar	Granted	2020102070	23.09.2020

30	AN EFFICIENT AIR CONDITIONER WITH SELF SANITIZING TECHNIQUES K.C., RAMYA; J., JANET; S., SHEEBA RANI; V., GOMATHY; S., SIVARANJANI; G., RADHAKRISHNAN; R., SUMATHI; KUMAR, K. VINOTH; KUMAR, S. SURESH; R., SARAVANAKUMAR; A., RADHIKA; B., STALIN and D., PRITIMA	Granted	2020102996	13.01.2021
31	NON-ISOLATED BI-DIRECTIONAL CONVERTERS WITH COUPLED INDUCTOR (NBDCCI ) FOR HYBRID ELECTRIC VEHICLE ( HEV) APPLICATIONS SOUNDARAPANDIAN, Sheeba Rani Gnanamalar, JAYARAJ, Janet, KARNAM CHANDRAKUMAR, Ramya, KRISHNAMURTHY, Vinoth Kumar, KARUPPASWAMY, Geetha, JOHN BASHA, Rizwana, VADIVELU, Kamatchi Sundari, SUNDARARAMAN, Shanthi, BALASHANMUGHAM, Sangeetha, STALIN, Baskaran, LAKSHMANAPRABU SONAI, Kannapiran	Granted	PCT/IN2019/050392	13.08.2020
32	Artificial Intelligence based Prdeiction of Driving Behaviour with Passenger while Driving Ms. D. Maladhi & Ms. T. Bhavatharini	Published	202141007422 A	2/26/2021
33	AN EFFICIENT AIR CONDITIONER WITH SELF SANITIZING TECHNIQUES Dr. K. C. Ramya	Published	2020102996	28.01.2021
34	Design and Investigation of Low Power Multi- Threshold Cmos Based Static-Ram Cubicle for Modern IoT Applications Dr. K. C. Ramya	Published	202141034519 A	06.08.2021
35	CHILD TRACKER WITH EMERGENCY NOTIFIER Dr. K. C. RAMYA	Published	202141025348 A	25.06.2021
36	AUTOMATIC BILLING SYSTEM IN A SHOPPING MALL BY USING THE SMART CART Dr. M. Senthilkumar	Published	202141004909 A	2/12/2021
37	AI Based Anti-Theft Detection in Two Wheelers Dr. G. Radhakrishnan	Published	202141036613 A	20.08.2021
38	An Effective Data Mining Technique for Automated Voice Recognition of Patients Ms.G. Shobana	Published	202021037052	9/4/2020
39	IOT Integrated Water Purifier with Ozone Generator Dr.M.Rajkumar	Published	202031037257	9/18/2020
40	A SYSTEM FOR IDENTIFICATION OF A SUSPECT AND A METHOD THEREOF Dr.A.Sajeev Ram	Published	202041054361	12/18/2020
41	Smart Trolley System for Airports and Shopping Malls Dr.A.Kousalya	Published	202041054514 A	12/25/2020

42	Detection of critical safety events in manufacturing industries using data mining Dr.Keerthika T	Published	202041055890	2/5/2021
43	Design and Fabrication of Low Cost Breath Monitoring System using Arduino UNO in IOT Platform Dr N Susila	Published	202141008418 A	3/12/2021
44	PORTABLE IOT NIR SENSOR SYSTEM FOR NON INVASIVE BLOOD GLUCOSE MEASUREMENT IN BLOOD Dr N Susila Dr M Rajkumar Mr M Diwakaran Dr J Granty Regina Elwin Mr A M Ratheeshkumar Mr Mervin George G Dr A Kousalya Dr V Anandkumar Dr.V.Arulkumar	Published	202141019351 A	5/7/2021
45	DETECTION AND PREVENTION Dr N Susila Dr K N Sivabalan Dr A Sajeev Ram Dr M Rajkumar Mr M Diwakaran Mr K Nagendran Ms G Shobana Dr V Anandkumar Dr.V.Arulkumar	Published	202141019352 A	5/7/2021
46	A SYSTEM BASED ON NEURAL NETWORK TO REFINE THE HEURISTIC DATA WITH IMAGE PROCESSING TECHNIQUES Dr.Keerthika T	Published	202141019150 A	5/7/2021
47	UV Sterilisation for all virus T.VIGNESH	Published	202041016532	5.6.2020
48	IOT based Remote Monitoring system for Industrial Automation and a method for its implementation.	Published	202041041108	16.10.2020
49	Sensor Based UAV Mapping for Precision Agriculture K.ANANTHI	Published	202041045223 A	30.10.2020
50	Real Time Monitoring and Tracking of Motor Vehicles using IOT N.A.NATRAJ	Published	202011050686 A	04.12.2020
51	An Efficient Air Conditioner with self sanitizing techniques D.PRITIMA	Published	2020102996	13.01.2021
52	An Efficient feature selection for color face recognition using hidden markov model and particle swarm optimization with image key generation	Published	202041035952	04.09.2020



53	An intelligent technique for uniquely recognizing face and finger image using bleaching vector quantization (LVQ) - based template key generation	Published	202041035826	04.09.2020
54	Artificial Intelligence Based Prediction of Driving Behaviour with Passenger While Driving - N.A.NATRAJ	Published	202141007422	26.02.2021
55	Preliminary Cooling of Moulding Sand by Precooling Setup S.MADHANKUMAR	Published	202141016240 A	16.04.2021
56	Handheld device for forecasting and detecting quality of eggs J.PRIYADHARSHINI	Published	202141014715A	16.04.2021
57	Intelligent Action Controller for IIoT using machine learning V.NARASIMHARAJ	Published	202141012320A	26.03.2021
58	Design and development of mishap detection and astute action smart system using IoT	Published	202141005564	12.02.2021
59	Intelligent Action Controller for IIoT using machine learning V.NARASIMHARAJ	Published	202141012320A	26.03.2021
60	Identification of plant leaves infection zone using autonomous drone and image processing technique.	Published	202141017306	23.04.2021
61	ANTIMICROBIAL NANO PARTICLE COATED CELLULOSIC COMPOSITE FROM AGRO-WASTE FOR PERSONAL PROTECTIVE EQUIPMENT	Granted	2021103323	12.08.2021
62	RFID BASED BUS TICKETING SYSTEM Mr.N.Ramachandran	Published	202041039793	9/25/2020
63	BRAKE AND ACCELERATOR USING SINGLE PEDAL R.Siva Subramanian	Published	202041039928	9/25/2020
64	IDENTIFICATION OF PLANT LEAVES INFECTION ZONE USING AUTONOMOUS DRONE AND IMAGE PROCESSING TECHNIQUE	Published	202141017306	4/23/2021
65	IOT BASED HARDWARE PLATFORM FOR CRYPTO ALGORITHM ANALYSIS	Published	202041050020 A	27.11.2020
66	MACHINE - LEARNING BASED METHOD FOR NETWORKING SECURITY FOR VIRTUAL REALITY COMMUNICATION NETWORK	Published	202131002165	12.02.2021
67	COMPUTER IMPLEMENTED METHOD FOR CONTROL OPERATION OF SMART ASSISTIVE GLASSES IN VISUALLY IMPAIRED ASSISTIVE SYSTEM	Published	202011034416A	11.09.2020
68	UV STERILISATION TECHNOLOGY FOR ALL VIRUS Dr.I.Pradeep	Published	202041016532 A	5/6/2020
69	Design Of Digital Acoustic Tracker For Cross Road Vehicle Management System	Published	202041007642	4/24/2020
70	IoT Enabled Optimization Scheme For Fishery Management System Dr.S.Balakrishnan	Published	202041007643	4/24/2020
71	A Quality-of-Service Load Balanced Connected Dominating Set Stochastic Diffusion Search (CDSSDS) Network Backbone for MANET	Published	202041049905	11/27/2020
72	Sensor Based UAV Mapping for Precision Agriculture Dr. G. Ignisha Rajathi	Published	202041045223	10/30/2020
73	Lip movement based visual speech recognition device for automatic documentation in built with digital Camera	Published	202041047439	6/11/2020
74	IoT Enabled Water Level and Quality Monitoring System for Lake Dr.S.Balakrishnan	Published	202041036811	11/9/2020

75	IoT Enabled Computational Analysis of Soil Yield and Fertilizer Analysis Dr.S.Balakrishnan	Published	202041036812	11/9/2020
76	Smart Digitech Pen Apparatus Design for Human Handwriting Replica Hands-Free From Audio or Soft Copy of Typed Text	Published	202041053085	11/12/2020
77	IoT Based Garbage Pail Monitoring System Dr.S.Balakrishnan	Published	202041054169	12/18/2020
78	IoT Based Street Light Monitoring System Dr.S.Balakrishnan	Published	202041054170	12/18/2020
79	IoT Based Plant Disease Detection Using Support Vector Machine Algorithm Dr.S.Balakrishnan	Published	202021050705	12/25/2020
80	SoS Vibration Sensor Headset Dr.S.Balakrishnan	Published	339519-001	2/22/2021
81	Bore Hole SoS - Grip Antech Rescue Device Dr.S.Balakrishnan	Published	340660-001	3/13/2021
82	A Robotized Irrigative Water Supply Treatment Framework using IOT Sensory Devices	Published	2021102408	5/7/2021
83	An Intelligent Concrete Mixture System With Prediction Of Mixture Strength Using Deep Learning	Published	202141020632	5/14/2021
84	NEXT GENERATION FRAMEWORK FOR SMART BUILDING MONITORING USING 6LOWPAN Dr.S.Balakrishnan	Granted	2020102608	11.11.2020
85	AN INTELLIGENT ACOUSTIC SERENITY USING SELF ADJUSTABLE USER- FRIENDLY IOT EMBEDDED MICROPHONE Dr.S.Balakrishnan	Granted	2020103899	27.01.2021
86	AN INTELLIGENT COST-EFFECTIVE MITIGATION OR ALERT SYSTEM FOR FLASH FLOOD CATASTROPHE CONTROL Dr.S.Balakrishnan	Granted	2021100687	07.04.2021