



MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
(Autonomous Institution – UGC, Govt. of India)
DEPT.OF ELECTRONICS AND COMMUNICATION ENGINEERING

ECE PATENTS
2022-23

| S.No. | Name of the Faculty | Title of Patent | Year | Inventor / Co-Inventor | File No. | Status |
|-------|---------------------|---|------|------------------------|-------------------------------|----------------------|
| 1. | Dr. Anup Dey | IOT BASED GAS CHROMATOGRAPHY | 2022 | Inventor | Application No.350721-001 | Published 16/12/2022 |
| 2. | Dr. M.Arun Kumar | A MACHINE LEARNING BASED SYSTEM FOR PHYSICAL ATTACK PROTECTION FOR VLSI CHIP LEVEL HARDWARE SECURITY AND METHOD THEREOF | 2022 | Inventor | Application No.202241030171 A | Published 03/06/2022 |
| 3. | Vijaya Bharathi | IMT SEGMENTATION OF CCA THROUGH POINTS OF INTEREST BY DECOMPOSITION TECHNIQUES: AN SVM REGRESSION BASED APPROACH FOR VALIDATION | 2022 | Inventor | Application No.202241050687 A | Published 16/09/2022 |



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2021-22

| S.No. | Name of the Faculty | Title of Patent | Year | Inventor / Co-Inventor | File No. | Status |
|-------|---|--|------|------------------------|-------------------------------|----------------------|
| 4. | Dr.Padala Vanitha Mrs.Pinjerla Swetha Dr.G Srinivasa Naveen Kumar Dr.N.Subash Mr.D.B.V.Ravisankar Mrs.Patibandla Anitha Dr.Arunkumar Madupu Dr.Nagesh Deevi Dr.Rayudu Chinnarao | MULTI-TENANT ROUTING GATEWAY FOR IOT DEVICES | 2022 | Inventor | Application No.202231005505 A | Published 04/03/2022 |
| 5. | Dr.Nagesh Deevi Dr.N.Subash Dr.K.Mallikarjuna Lingam Mrs.Neha Thakur Mrs.G.Vaidehi Mrs.Patibandla Anitha Dr.Arunkumar Madupu | A SYSTEM FOR TAGGING IOT DEVICE BASED ON CONVOLUTIONAL NEURAL NETWORK (CNN) AND METHOD THEREOF | 2021 | Inventor | Application No.202141051612 A | Published 03/12/2021 |
| 6. | Dr.G Srinivasa Naveen Kumar Dr.N.Subash Mr.Maram Anantha Guptha Mr.T.Vinay Simha Reddy Mr.D.B.V.Ravisankar | A MACHINE LEARNING-BASED PLATFORM FOR DISTRIBUTED IOT SYSTEMS | 2021 | Inventor | Application No.202141045329 A | Published 05/11/2021 |

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|-----|--|--|------|----------|----------------------------------|-------------------------|
| | Mrs.Baggam Swathi Mrs.Pinjerla Swetha Mrs.Neha Thakur Mr.Rayudu Chinnarao | | | | | |
| 7. | Dr.G Srinivasa Naveen Kumar Mrs.Neha Thakur Mr.D.B.V.Ravisankar Mrs.Surata Rajani Mrs.Pinjerla Swetha Mr.Kanumalla D Krushna Ajay Mrs.Renju Panicker Mr.Arunkumar Madupu Mr.Srinivas Talasila Mr.Rayudu Chinnarao | AN IMAGE PROCESSING DEVICE WITH SENSORS AND NEURAL NETWORK MODULES | 2021 | Inventor | Application No.202141042009 A | Published 01/10/2021 |
| 8. | Dr. M.Arun Kumar | AI FOR EFFICIENT ASSESSMENT AND PREDICTION OF HUMAN PERFORMANCE IN COLLABORATIVE LEARNING ENVIRONMENTS | 2021 | Inventor | 202141037142 | Published 27/08/2021 |
| 9. | Dr. R. Chinna Rao | ARTIFICIAL INTELLIGENCE TOOL FOR RICE LEAF DISEASE DETECTION AND CLASSIFICATION | 2021 | Inventor | Application No.202141035807 A | Published 27/08/2021 |
| 10. | Dr. R. Chinna Rao | FUZZY LOGIC CONTROLLED TRAFFIC LIGHT CONTROLLING SYSTEM USING MORPHOLOGICAL OPERATORS WITH IMAGE STA | 2021 | Inventor | Application No.202141030418 A | Published 16/07/2021 |



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ECE PATENTS
2020-21

| S.No. | Name of the Faculty | Title of Patent | Year | Inventor / Co-Inventor | File No. | Status |
|-------|--|---|------|------------------------|-------------------------------|----------------------|
| 1. | Dr. VSK Reddy Dr. K. Mallikarjuna Lingam Ms. Renju Panicker Dr.M.Sucharitha Mr. Trivedi Aniket Umakant | ROBOTICS-HUMAN AND MACHINE COLLABORATION SYSTEM FOR HEALTHCARE UNITS | 2021 | Inventor | Application No.202141016957 A | Published 23/04/2021 |
| 2. | Dr. S. Srinivasa Rao Dr.Tipirneni Venugopal Dr. B. Jyothi Dr. N. Subash Dr. VM Senthilkumar Dr Sucharitha M Dr. S. Sasikanth Arunkumar Madupu P. Anitha Chinthakindi Kiran Kumar Maram Anantha Guptha Srinivas Talasila | REMOTE HEALTH MONITORING SYSTEM WITH WEARABLE SENSORS AND IOT TOWARDS REAL TIME HEALTHCARE SERVICES | 2021 | Inventor | Application No.202141013447 A | Published 02/04/2021 |
| 3. | Dr. S. Srinivasa Rao | NLP- ARTIFICIAL INTELLIGENCE BASED AUTOMATIC DETECTION OF INFECTION RATE OF | 2020 | Inventor | 2020102643 | Published 11-11-2020 |

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| | | <p>PANDEMIC DISEASES(COVID-19)</p> | | | | |
| 4. | Dr. K. Mallikarjuna Lingam | <p>AN ARTIFICIAL NEURAL NETWORK SYSTEM FOR FUNCTIONAL MRI SEGMENTATION WITH CC-BPA</p> | 2021 | Inventor | <p>Patent number: 2021100880</p> | <p>Published 07/04/2021</p> |
| 5. | Dr. VM Senthil Kumar | <p>A DESIGN AND DEVELOPMENT OF ISOLATED HEALTH CARE SYSTEM USING IOT</p> | 2021 | Inventor | 202141019012A | <p>Published Date: 30/04/2021</p> |
| 6. | Dr B. Jyothi | <p>SECURED MUTUAL AUTHENTICATION PROTOCOL USING PHYSICAL UNCLONABLE FUNCTION(PUF) HOME DEVICES</p> | 2021 | Inventor | 202041056988 | <p>Published 19/02/2021</p> |
| 7. | Dr. M.Arun Kumar | <p>A SYSTEM FOR SERVICE PROVIDING USING BLOCK-CHAIN</p> | 2021 | Inventor | 2021101316 | <p>Published 21/04/2021</p> |
| 8. | Dr. M.Arun Kumar | <p>DFM-PREDICT GENDER AGE COUNTRY: DETECT FACES AND PREDICT THEIR GENDER, AGE AND COUNTRY USING MACHINE LEARNING PROGRAMMING (IMDB WIKI DATASET)</p> | 2021 | Inventor | 202041055411 | <p>Published 01/01/2021</p> |



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2019-20

| S.No. | Name of the Faculty | Title of Patent | Year | Inventor / Co-Inventor | File No. | Status |
|-------|------------------------------------|---|------|------------------------|--------------|----------------------------|
| 1. | Dr. VM Senthil Kumar | DEEP LEARNING CLASSIFIER FOR PROCESSING MOBILE COMPUTING IOT BASED HEALTHCARE SYSTEMS | 2020 | Inventor | 202041011628 | Published Date: 15/05/2020 |
| 2. | Dr. S.Sasikanth Dr.M.Sucharitha | AN AUTOMATED AND ADAPTIVE SELF-POWER GENERATE GARBAGE NOTIFICATION SYSTEM | 2019 | Inventor | 201911004222 | Published on 22/02/2019 |
| 3. | Dr.M.Sucharitha | AN ENERGY- EFFICIENT INCENTIVES RESOURCE ALLOCATION SCHEME FOR A COOPERATIVE COMMUNICATION SYSTEM USING INTELLIGENT WATER DROPS ALGORITHM | 2019 | Inventor | 201941019144 | Published on 15/05/2019 |



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2018-19

| S.No. | Name of the Faculty | Title of Patent | Year | Inventor / Co-Inventor | File No. | Status |
|-------|--|--|------|------------------------|-------------------------------------|----------------------------------|
| 1. | Dr V.S.K REDDY Prof.P SANJEEVA REDDY Dr. S SRINIVASA RAO Dr. B JYOTHI Dr. C RAVI SHANKAR REDDY Dr. P LAKSHMI DEVI K SUBHAS G SRINIVASA NAVEEN KUMAR K MALLIKARJUNA LINGAM M RAMANJANEYULU P ANITHA P SWETHA D ASHA R CHINNA RAO M ARUN KUMAR M SREEDHAR REDDY | ARTIFICIAL INTELLIGENCE ENABLED FERTILIZER DISPENSATION SYSTEM FOR BETTER YIELD OF CROPS | 2018 | Inventor | Application No.201841015755 A | Published 2018-05-04 |
| 2. | Dr. VM Senthil Kumar | HORIZONTALAXIS,CAM GUIDED,TELESCOPIC BLADE,YAW CONTROLLED WIND MILL | 2018 | Inventor | Application No.201841 033956A | Published Date: 28/09/2018 |