

MALLAREDDY ENGINEERING COLLEGE
AND MANAGEMENT SCIENCES



EN **EEE** ENERGY

*TECHNICAL
MAGAZINE -2023*

2023

DEPARTMENT OF EEE

C H A I R M A N ' S M E S S A G E

Education is empowerment leading to foster individual, social, professional and economic development and it shapers the difference between the worlds today. Sri V MALLA REDDY Chairman is the backbone of Malla Reddy Engineering College and Management Science. His dynamic and intelligent leadership leads to phenomenal growth of the college. Altruism and industrious attitudes are his strengths and they are the key factors for success of Malla Reddy Engineering College and Management Sciences. His vision was to bring technical education to the door step of rural India. The establishment of this college has fulfilled his long cherished dream of starting Engineering College to serve the society offering technical education in both conventional and Hi-tech disciplines of engineering with all the state-of-the-art facilities. There is no better place to advance your career than Malla Reddy Engineering College and Management Sciences, being your promising future here .



V MALLA REDDY
Chairman , MREM

PRINCIPAL's MESSAGE

I am happy that the Department of Electrical & Electronics Engineering has started magazine named "ENERGY". A group of highly competent and committed faculty members who consistently encourage students to achieve academic achievement is the department's main strength. We are also in process of recruiting more doctorate faculty with good exposure for benefit of students. We are also promoting research among faculty and students. The College has made tremendous progress in all areas of academic, non-academic, and capacity building relevant to staff and students. I wish the students and faculty will continuously update their knowledge in emerging technologies like smart-grid, electronics with AI, electric vehicles, etc, and become globally competent. I once again congratulate the whole team and I hope this will prove to be a milestone in the digital journal of MREM as well as the Electrical & Electronics department.



Dr B SUBBARATNAM
PRINCIPAL MREM

HOD's MESSAGE

I hope this message finds you in good health and high spirits. As we embark on a new academic year, I want to extend a warm welcome to all of you, whether you are returning students or newcomers to our department. Our department is committed to providing you with a top-notch education, equipping you with the skills and knowledge necessary to thrive in this ever-evolving field. We have a dedicated team of faculty members who are here to guide and support you throughout your academic journey. In EEE, innovation and creativity are key. I urge each one of you to think beyond the confines of textbooks and explore the practical applications of what you learn. The world of electrical and electronic engineering is teeming with opportunities, and your potential is limitless. I also want to emphasize the importance of collaboration and teamwork. Engineering is rarely a solitary endeavor, and we often achieve the best results when working together.



Dr.K.BHAUMIK
HOD , EEE

From The EDITOR'S DESK

The best experience is always being a part of a remarkable journey. Being named chief editor of the Department of Electrical and Electronics Engineering's yearly technical magazine, "EnEEergy," has been the biggest honor of my career.

The magazine will clarify the technical details that, for whatever reason, stay unresolved and ultimately exist but are eventually erased from our memories. Every element of it is carefully chosen to bond the readers to it. The speed at which the modern world is developing is unfathomable. The magazine will give readers enough information on technical developments so they can understand them.

I would like to use this chance to express my appreciation to every member who helped put together the magazine.



B. SURYA PRAKASH
Chief Editor, EEE

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TEACHER'S CORNER



**Mr. ISMAYEL
GOLLAPUDI**

Ismayel Gollapudi holds a B.Tech in Electrical Engineering from St. Ann's College of Engineering & Technology, Chirala, affiliated with JNTUK Kakinada, India, which he completed in 2009. He furthered his education by obtaining an M.Tech degree in Power Electronics from the same university in 2012. Currently, Ismayel Gollapudi is pursuing his Ph.D. from JNTUK Kakinada. He serves as an Assistant Professor in the Electrical and Electronics Engineering Department at Malla Reddy Engineering College and Management Sciences in Hyderabad, Telangana, India. He has an impressive track record of publications in both national and international journals and conferences. His research interests encompass Power Electronics, Non-Conventional Energy Sources, Electromagnetics, and High-Frequency Power Electronic Converters. Presently, he is actively engaged in research focused on applications of Induction-based heating.



Mr. K. CHAITANYA

K. Chaitanya is an accomplished scholar who has completed his Bachelor's, Master's, and is currently pursuing his Ph.D. in Electrical Engineering at Kalinga Institute of Industrial Technology (KIIT) in India, achieving these milestones in 2008, 2011, and 2022, respectively. His academic focus lies in the field of engineering. Presently, he holds the position of Assistant Professor in the Electrical and Electronics Engineering Department at Malla Reddy Engineering College and Management Sciences in Hyderabad, Telangana, India. With over 12 years of teaching experience, K. Chaitanya is a seasoned educator. Furthermore, his ongoing research centers on applications of renewable energy sources, high-frequency converters, solar photovoltaic systems, motors, neural network-based Maximum Power Point Tracking (MPPT), and water pumping systems.



Mr. D. ARVIND

D. Aravind obtained his bachelor's and master's degrees in electrical engineering from JNTUH University, India, in 2009 and 2013, respectively. His master's specialization was in M.Tech. POWER ELECTRONICS engineering. Currently, he holds the position of Assistant Professor in the Electrical and Electronics Engineering Department at Malla Reddy Engineering College and Management Sciences in Hyderabad, Telangana, India. With a total of 9 years of experience in both teaching and industry, he has made significant contributions to international journal publications. His completed projects primarily revolve around applications in power electronics, power systems, neural networks, and artificial intelligence.

K. Shankar obtained his bachelor's and master's degrees in electrical engineering from JNTUH University, India, in 2007 and 2015, respectively, specializing in engineering. Presently, he holds the position of Assistant Professor in the Department of Electrical and Electronics Engineering at Malla Reddy Engineering College and Management Sciences in Hyderabad, Telangana, India. With a teaching experience of 7 years, he brings valuable expertise to his role



Mr. K. SHANKER



Dr. B. MABU SHARIF

Dr. B. Mabu Sarif is currently serving as an Associate Professor in the Department of Electrical & Electronics Engineering at Malla Reddy Engineering College and Management Sciences in Hyderabad, Telangana, India. He earned his M. Tech in Electrical Control Systems Engineering from JNT University, Hyderabad, India in 2013, followed by a B.Tech. in Electrical and Electronics Engineering from JNT University, Anantapur, A.P. India in 2010. In 2022, he successfully completed his Doctoral Degree in Control Systems Engineering (Electrical & Electronics Engineering) from K L University, Vijayawada, A.P. India. Dr. Sarif has a commendable record of publishing over 32 papers in various National and International Conferences and Journals. He holds the status of a Senior Member of IEEE, along with memberships in ISTE and the International Association of Engineers (IAENG) in India. His current research pursuits are centered around Control Systems, power electronics applications, high-frequency converters, energy-efficient devices, drives, computer-aided power system analysis, condition monitoring.



Mr. J. SURESH

JAKKULA SURESH obtained his Bachelor's and Master's degrees in Electrical Engineering from JNTU ANANTAPURAM, India, in 2016 and 2020, respectively, specializing in engineering. Presently, he serves as an Assistant Professor in the Electrical and Electronics Engineering Department at Malla Reddy Engineering College and Management Sciences in Hyderabad, Telangana, India. With three

years of combined teaching experience, he holds one patent and has made significant contributions to numerous national and international journal and conference publications. His ongoing research is centered on power electronics applications, high-frequency converters, and energy-efficient devices.

M. Sudheer Babu earned his bachelor's and master's degrees in electrical engineering from JNTUA University, India, in 2010 and 2013 respectively, specializing in engineering. Presently, he serves as an Assistant Professor in the Electrical and Electronics Engineering Department at Malla Reddy Engineering College and Management Sciences in Hyderabad, Telangana, India. With a combined

experience of 7 years in teaching and industry, he holds four patents and has made significant contributions to various national and international journal and conference publications. His ongoing research is centered around power electronics applications, high-frequency converters, energy-efficient devices, drives, and computer-aided power system analysis.



**Mr. M.
SUDHEER BABU**



Mr. S. MANISH

S. Manish obtained his bachelor's and master's degrees in Electrical and Electronics Engineering from JNTU University in Hyderabad, India, in 2012 and 2014 , respectively. He specialized in engineering during his studies. Currently, he holds the position of Assistant Professor in the Electrical and Electronics Engineering Department at Malla Reddy Engineering College and Management Sciences in

Hyderabad, Telangana, India. With a total of 9 years of experience in both teaching and industry, he has made significant contributions to numerous national and international publications in journals and conferences. His ongoing research is centered around applications of Python Programming in Electrical load maintenance, power electronics, high-frequency converters, energy-efficient devices, drives, computer-aided power system analysis, condition monitoring.

Mr. Venkaiah Patra completed his bachelor's, and master's, degrees in electrical engineering at JNTUK University, India, in 2009 , and 2015 , respectively, with a specialization in engineering. Currently, he serves as an Assistant Professor in the Electrical and Electronics Engineering Department at Malla Reddy Engineering College and Management Sciences in Hyderabad, Telangana India. With 8 years of combined experience in teaching and

industry, he holds four patents and has contributed to numerous national and international journal and conference publications.



**Mr.
P.VENKAIAH**



STUDENT INSIGHTS

FUTURE IN EV INDUSTRY

India is home to one of the biggest car markets in the world, thus the country's electrification will be a game-changer for both the global and Indian auto industries. The future of electric vehicles in India appears bright, propelled by the government's push for sustainable mobility, rising consumer demand for new technologies, and the rise of private firms interested in EV technology.

India's transition to electric cars will have a big effect on the environment. India's transportation industry currently contributes significantly to pollution. Consider the nation's capital, New Delhi, where 50% of the surface PM 2.5 levels are caused by two- and three-wheelers. India's youthful and vibrant populace is eager to adopt new technology as the nation is witnessing an increasing trend.

-BODA SANDEEP
(IV- YEAR)



BiCMOS

Bipolar and CMOS transistors are combined in a single integrated circuit by BiCMOS technology. BiCMOS is able to create VLSI circuits with speed-power-density performance that was previously impossible with either technology alone by combining the advantages of bipolar and CMOS. In terms of packing density, noise margins, power dissipation, and the capacity to combine big, complicated functionalities with good yields, CMOS technology continues to outperform Bipolar technology. In terms of switching speed, current drive per unit area, noise performance, analog capability, and I/O speed, bipolar technology outperforms CMOS technology. Considering the increasing significance of package restrictions in high-speed systems, this final issue is particularly important.

-K.CHANDRASHEKAR
(III- YEAR)



DEVELOPMENT OF SUPERCONDUCTING ROTATING MACHINES

Applications of superconducting technology in electric machines have been sought after for a long time because of its considerable advantages over conventional technology, including improved efficiency and power density. Nevertheless, commercial acceptance has been slow despite numerous successful technology demos, most likely because the barrier for value vs cost and technology risk has not yet been crossed. Applications where superconducting technology's benefits become crucial enablers for systems that are impractical with conventional technology are one possible route for this disruptive technology to find its way into commercial products. We provide a superconducting machine technology roadmap to assist systems engineers in evaluating the feasibility of such future solutions.

- BHARGAVI (II- YEAR)



FACTS

Flexible Alternating Current Transmission System, or just Flexible AC Transmission System, is what FACTS stands for. Static devices are utilized in this power electronic-based system to improve and expand controllability and power transmission capability.

The power electronics components utilized in the traditional AC transmission network are called FACTS devices. The acronym for Flexible AC Transmission System is FACTS. In addition to increasing the transmission line's capacity for power transfer, these devices also improve the transmission network's dependability, transient stability, voltage regulation, and temperature limitations. Prior to the development of power electronics switches, mechanical switches were used to link capacitors, reactors, or synchronous generators in order to tackle these issues.

-UDUTHA SANJANA
(I YEAR)

CLUB PROJECTS

ROBOTICS SOCIETY

DESIGN OF ROBOTIC ELECTRIC VEHICLE CHARGING STATION

An intelligent process-based design is used to create and manage Electric Vehicle (EV) charging processes. Because of the limitations of electrical power distribution, charging electric vehicles must be done efficiently. The recommended smart electric vehicle charging station has modern features such as the ability to switch sources automatically based on the availability of each source while still maintaining power from many sources. We are employing three sources in this implementation: the solar system, the wind system, and the main supply. The controller will switch the source automatically depending on its relevance. Users of the IOT Thing Speak cloud service will be able to view the number of available slots. In this paper, an intelligent process-based design is used to create and manage Electric Vehicle (EV) charging processes. Because of the limitations of electrical power distribution, charging electric vehicles must be done efficiently. The recommended smart electric vehicle charging station has modern features such as the ability to switch sources automatically based on the availability of each source while still maintaining power from many sources.

DASARI GAYATHRI SUJITHA(EEE),BAIRI AJAY(EEE),RAPOL VAISHNAVI(EEE),KOLUMULA HRUTHIK(EEE).

ROBOTICS SOCIETY

WAR FIELD SPY ROBOT USING ESP32 CAM

The main aim and objective of this project is to deal with the security issues such as combating of the terrorists activities by tracking their locations and launch pads and reducing soldier's efforts and involvement in the mission. This can be achieved by the RF BASED spy robot which consists of a night vision wireless camera. The robot consists of night vision camera which is wireless and it can record real time videos and footages even in dark and these footages are displayed on our mobile screen which is connected through Wi-Fi via MI-app spy. This robot is capable carrying all kinds of military operations under all conditions without much involvement of the soldiers, thus saving the loss of lives and neutralizing any terrorists' activities.

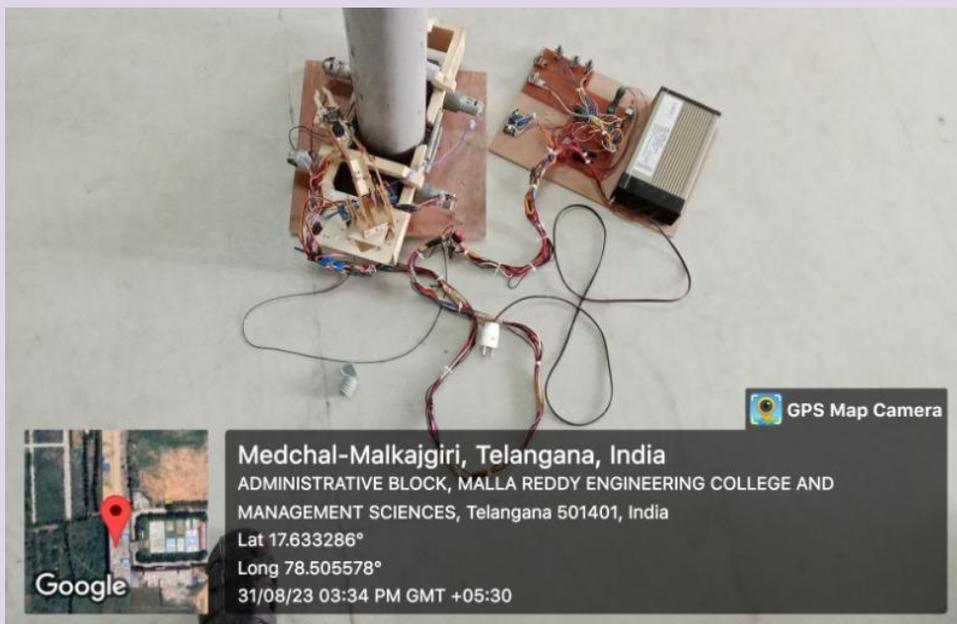


RAVULA SAI PREETHI(EEE),ERUGU SRIMANI(EEE),LADY KIRAN SEJAL(EEE),VOLETI SRIKAR(EEE).

ROBOTICS SOCIETY

ELECTRIC POLE CLIMBING ROBOT WITH R. F REMOTE CONTROL FOR A ELECTRIC LINEMAN ASSIST APPLICATIONS

Robots that can climb are helpful when a task calls for the use of long-reaching tools or is dangerous for humans to perform. To carry out certain duties, these robots can be outfitted with robotic manipulators, video cameras, microphones, and other sensors. A novel form of pole-climbing is being developed in this study. The configuration and properties of a proposed robot mechanism are introduced. The hold, put, main move, process of mounting the pole, fixing to the pole, and crossing barriers actions of the robot mechanism are all examined.



RAVULA SAI PREETHI(EEE),ERUGU SRIMANI(EEE),LADY KIRAN SEJAL(EEE),VOLETI SRIKAR(EEE).

IOT BASED COAL MINES MONITORING AND ALERTING SYSTEM

Accidents in coal mines are happening increasingly frequently. Numerous laborers and skilled workers have perished. To identify and raise an alarm about the concerning cause of coal mine accidents, there is no early warning system in place. Injuries and illnesses at work are frequent in the mining sector. The most well-known causes of coal mining accidents include firedamp and residue blasts, landslips, mine flames, and transport and motorization-related specialist disappointments. According to research, examining word-related accidents in relation to social and financial factors reveals the true causes of these accidents, which are purportedly inevitable due to specific flaws or disappointments. In order to protect the experts from potential dangers, a robotic system for investigating coal mineshaft accidents is employed.

CHIGULLA PRAVEEN KUMAR(EEE),KOTHAKONDA
MANISHA(EEE),SOMA SAI KOTI(EEE),DEVASOTH NARESH(EEE).

INTERNET OF THINGS

IOT BASED ON SMART STREET LIGHT

The automated streetlight management system that uses the Internet of Things aims to save energy by cutting down on wasted electricity and labor. Although they provide safer roadways, improved night vision, and increased visibility of public spaces, streetlights are an essential component of any city, even if they use a significant amount of electricity. Even in situations where there is ample light, the manual streetlight system operates at maximum intensity from dusk till dawn. You may prevent this waste of electricity by having lights turn off on their own. An IOT-enabled streetlight management system can help with this. Intensity variation is made possible by LED lights with LDR, something that is not possible with HID lamps. An extra DHT11 temperature-humidity sensor is part of this setup. This gives the precise humidity and temperature of a certain area. The composite sensor DHT11 has a calibrated digital signal output for both humidity and temperature. It guarantees outstanding long-term stability and high dependability. An Arduino board that has been programmed to provide the necessary light intensity at different times is used to carry out this operation.

GADIPALLY RANADEEP(EEE),KANGTIWAR ARUN(EEE),YELLARAM BHARATH(EEE),GOPALLOLLO SHIVA KUMAR(EEE).

SMART

SMART BAG FOR WOMEN SECURITY

A smart bag that gives women security. The GSM module, voice sensor, emergency switch, Arduino board, and several actuators are all parts of the smart backpack. Either pressing the emergency switch or detecting the woman's voice using a voice sensor causes the system to turn on. A siren emits a high-pitched alert sound when an alarming situation is detected, and a pepper spray begins to spray. Additionally, the front of the bag produces extremely high voltage, harming the attacker. Automatic messages describing the location and the situation are sent to registered numbers in the interim.



GADIPALLY RANADEEP(EEE),KANGTIWAR ARUN(EEE),YELLARAM BHARATH(EEE),GOPALLOLO SHIVA KUMAR(EEE).

ACHIEVEMENTS



Mr. GOLLAPUDI ISMAYEL

1. Published journal on “ Genuino Uno Robotic Arm 3D Printed with Portable Authority” in the year 2023.
2. Published journal on “A study on Static and Dynamic changing of electric vehicle” in the year 2022
3. Published journal on “Solar Power Based Industrial Boiler Controller With Temperature Display” in the year 2022
- 4 . P u b l i s h e d a b o o k t i t l e d “ A Comprehensive review on algorithms of image processing for autonomous and electric vehicles” in the year 2023.

Dr. K. BHAUMIK

1. Published journal on “ Genuino Uno Robotic Arm 3D Printed with Portable Authority” in the year 2023.
- 2 . P u b l i s h e d a b o o k t i t l e d “ A Comprehensive review on algorithms of image processing for autonomous and electric vehicles” in the year 2023.
3. Published a patent titled “Smart Farming System :An IOT - Enabled Agricultural Management And Optimization” in the year 2023



Dr. B. MABU SHARIF

1. Published journal on “ Genuino Uno Robotic Arm 3D Printed with Portable Authority” in the year 2023.



Mr. S. MANISH

1 . Published journal on “ Genuino Uno Robotic Arm 3 D Printed with Portable Authority” in the year 2023.

2. Published journal on “A study on Static and Dynamic changing of electric vehicle” in the year 2022.

3. Published a journal on “A Review on Predictive Methodologies for Enhancement of solar PV Cell Efficiency”.



Mr. P. VENKAIAH

1. Published journal on “ Genuino Uno Robotic Arm 3D Printed with Portable Authority” in the year 2023.

2. Published journal on “A study on Static and Dynamic changing of electric vehicle” in the year 2022



FACULTY PUBLICATIONS DURING 2022-23

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| 1 | Genuino Uno Robotic Arm 3D Printed with Portable Authority | B. Mabu Sarif | Journal | JOESP | International | 2023 | yes | DOI: https://doi.org/10.46610/JoESP.2023.v08i02.002 | Volume - 8, Issue - 2 (May-August, 2023) | UGC |
| 2 | Genuino Uno Robotic Arm 3D Printed with Portable Authority | G. Ismayel | Journal | JOESP | International | 2023 | yes | DOI: https://doi.org/10.46610/JoESP.2023.v08i02.002 | Volume - 8, Issue - 2 (May-August, 2023) | UGC |
| 3 | Genuino Uno Robotic Arm 3D Printed with Portable Authority | K. Bhaumi k | Journal | JOESP | International | 2023 | yes | DOI: https://doi.org/10.46610/JoESP.2023.v08i02.002 | Volume - 8, Issue - 2 (May-August, 2023) | UGC |
| 4 | Genuino Uno Robotic Arm 3D Printed with Portable Authority | S. Manish | Journal | JOESP | International | 2023 | yes | DOI: https://doi.org/10.46610/JoESP.2023.v08i02.002 | Volume - 8, Issue - 2 (May-August, 2023) | UGC |
| 5 | Genuino Uno Robotic Arm 3D Printed with Portable Authority | P. Venkaiah | Journal | JOESP | International | 2023 | yes | DOI: https://doi.org/10.46610/JoESP.2023.v08i02.002 | Volume - 8, Issue - 2 (May-August, 2023) | UGC |
| 6 | A study on Static and Dynamic changing of electric | G. Ismayel | Journal | IJEST | International | 2022 | yes | ISSN: 2456-1118 | Volume - 7, Issue 3, December | UGC |

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|----|--|-------------------|---------|--------|---------------|------|-----|-----------------|-----------------------------------|--------|
| 7 | A study on Static and Dynamic changing of electric vehicle | P.Venkai ah | Journal | IJEST | International | 2022 | yes | ISSN:24 56-1118 | Volume -7, Issue 3, December 2022 | UGC |
| 8 | A study on Static and Dynamic changing of electric vehicle | S.Manish | Journal | IJEST | International | 2022 | yes | ISSN:24 56-1118 | Volume -7, Issue 3, December 2022 | UGC |
| 9 | Substation Monitoring and Controlling System | T.Bhavana ni | Journal | JES | International | 2022 | yes | ISSN:03 77-9254 | Volume 13, Issue 12, 2022 | SCOPUS |
| 10 | RFID Based Petrol pump Automation System | T.Murali Krishna | Journal | JES | International | 2022 | yes | ISSN:03 77-9254 | Volume 13, Issue 12, 2022 | SCOPUS |
| 11 | IOT Based Auto Illuminated Smart Street Lamp(SSL) in Highways | T.Sivaram | Journal | IJIEMR | International | 2022 | yes | ISSN:24 56-5083 | Volume 11, Issue 11, 2022 | UGC |
| | Earthquake And Hazardous Gases Detection In Coal Mines Over Internet Of Things | T. Murali Krishna | Journal | JES | International | 2022 | yes | ISSN:03 77-9254 | Volume 13, Issue 12, 2022 | SCOPUS |
| | Solar Power Based Industrial Boiler Controller With Temperature Display | G. Ismayel | Journal | IJIEMR | International | 2022 | yes | ISSN:24 56-5083 | Volume 11, Issue 11, 2022 | UGC |
| | IOT Based Underground Cable Fault Distance And Fault Location | T.Bhavana ni | Journal | JES | International | 2022 | yes | ISSN:03 77-9254 | Volume 13, Issue 12, 2022 | SCOPUS |
| | Solar Tracker For Acquiring Maximum Of Power | T.Sivaram | Journal | IJIEMR | International | 2022 | yes | ISSN:24 56-5083 | Volume 11, Issue 11, NOV 2022 | UGC |

BOOK CHAPTER

A Comprehensive Review on Algorithms of Image Processing for Autonomous and Electric Vehicles

Ismayel Gollapudi, Kallol Bhaumik (/affiliate/kallol-bhaumik/449123/), Digvijay pandey, Juttu Suresh, K. V. Ganesh, Uday Kumar Kanike

Source Title: Handbook of Research on Thrust Technologies' Effect on Image processing ('gateway/book,'314629)

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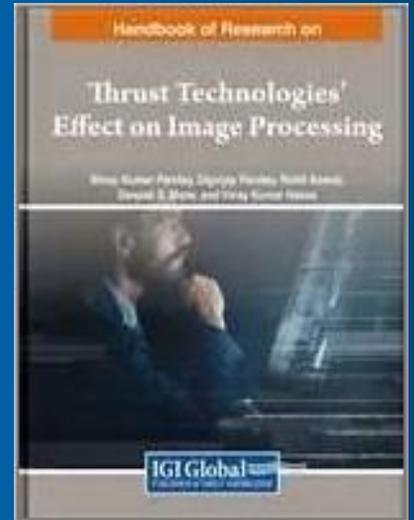
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Abstract

The promise for autonomous electric vehicles to lower carbon emissions and increase road safety has drawn a lot of interest to this technology. With the use of image processing, these cars can now recognize and react to objects and obstacles in their surroundings, making it a crucial tool in their evolution. We explore the application of image processing in autonomous and electric cars in this review paper, with an emphasis on the many methods that the authors have suggested. The evaluation of the efficiency and performance of several methods, such as sensor fusion, computer vision, and deep learning, in identifying and detecting objects in the surrounding environment. Our analysis focuses on the benefits and drawbacks of each method as well as their potential for advancement in the field of electric vehicles in the future.





Office of the Controller General of Patents, Designs & Trade Marks
 Department of Industrial Policy & Promotion,
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(<http://ipindia.nic.in/index.htm>)



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| E-MAIL (As Per Record) | thilaksayila@gmail.com |
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