

Home (<http://ipindia.nic.in/index.htm>) About Us (<http://ipindia.nic.in/about-us.htm>) Who's Who (<http://ipindia.nic.in/whos-who-page.htm>)
 Policy & Programs (<http://ipindia.nic.in/policy-pages.htm>) Achievements (<http://ipindia.nic.in/achievements-page.htm>)
 RTI (<http://ipindia.nic.in/right-to-information.htm>) Feedback (<https://ipindiaonline.gov.in/feedback>) Sitemap (<http://ipindia.nic.in/itemap.htm>)
 Contact Us (<http://ipindia.nic.in/contact-us.htm>) Help Line (<http://ipindia.nic.in/helpline-page.htm>)

[Skip to Main Content](#)

[\(http://ipindia.nic.in/index.htm\)](http://ipindia.nic.in/index.htm)

[\(http://ipindia.nic.in/inc\)](http://ipindia.nic.in/inc)

Patent Search

Invention Title	DEEP LEARNING-INTEGRATED POWER MANAGEMENT SYSTEM FOR ELECTRIC VEHICLES IN DIVERSE APPLICATIONS				
Publication Number	31/2024				
Publication Date	02/08/2024				
Publication Type	INA				
Application Number	202441056319				
Application Filing Date	24/07/2024				
Priority Number					
Priority Country					
Priority Date					
Field Of Invention	ELECTRICAL				
Classification (IPC)	B60L58/10, G05B23/02, G06N20/00, G06N3/00, G06Q50/06				
Inventor					
Name	Address			Country	Nat
Ms. Sandiri Swetha	Assistant Professor, Department of ECE, St. Peter's Engineering College, Hyderabad, Telangana, India, Pincode: 500043			India	Ind
Mr. Sunil Kumar Suvvari	Senior Consultant, 11211 lost maples Trail, Frisco State, USA, Pin - 75035			U.S.A.	U.S
Mr. P. Sai Sampath Kumar	Assistant Professor, Department of Electrical and Electronics Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal, Andhra Pradesh, India. Pincode:518501			India	Ind
Dr. G. Venkateswarlu	HoD & Professor, Department of Electrical and Electronics Engineering, Narayana Engineering College, Nellore, SPSR Nellore (Dt), Andhra Pradesh, India, Pincode: 524 004			India	Ind
Ms. Mallela Leela Mounika	Assistant Professor, Department of Electrical and Electronics Engineering, Narayana Engineering College, Nellore, SPSR Nellore (Dt), Andhra Pradesh, India, Pincode: 524 004			India	Ind
Mr. Potnuru Narayanarao	Assistant Professor, Department of ECE, Aditya Institute of Technology and Management, Tekkali, Andhra Pradesh, India			India	Ind
Mrs. Nellore Yamini	Assistant Professor, Department of Electrical and Electronics Engineering, Narayana Engineering College, Nellore, SPSR Nellore (Dt), Andhra Pradesh, India, Pincode: 524 004			India	Ind
Dr. Nellore Manoj Kumar	Independent Researcher, Founder & CEO, Infinite-Research Organization, B.O, 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132			India	Ind
Mr. B. Siva Sankar	Assistant Professor, Department of IT, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043			India	Ind
Dr. Peddireddi Sivakrishna	Professor, Department of CSE, Sree Rama Engineering College, Tirupati, Andhra Pradesh, India, Pincode: 517507			India	Ind
Applicant					

Name	Address	Country	Nat
Ms. Sandiri Swetha	Assistant Professor, Department of ECE, St. Peter's Engineering College, Hyderabad, Telangana, India, Pincode: 500043	India	Indi
Mr. Sunil Kumar Suvvari	Senior Consultant, 11211 lost maples Trail, Frisco State, USA, Pin - 75035	U.S.A.	U.S.
Mr. P. Sai Sampath Kumar	Assistant Professor, Department of Electrical and Electronics Engineering, Rajeev Gandhi Memorial College of Engineering and Technology, Nandyal, Andhra Pradesh, India. Pincode:518501	India	Indi
Dr. G. Venkateswarlu	HoD & Professor, Department of Electrical and Electronics Engineering, Narayana Engineering College, Nellore, SPSR Nellore (Dt), Andhra Pradesh, India, Pincode: 524 004	India	Indi
Ms. Mallela Leela Mounika	Assistant Professor, Department of Electrical and Electronics Engineering, Narayana Engineering College, Nellore, SPSR Nellore (Dt), Andhra Pradesh, India, Pincode: 524 004	India	Indi
Mr. Potnuru Narayanarao	Assistant Professor, Department of ECE, Aditya Institute of Technology and Management, Tekkali, Andhra Pradesh, India	India	Indi
Mrs. Nellore Yamini	Assistant Professor, Department of Electrical and Electronics Engineering, Narayana Engineering College, Nellore, SPSR Nellore (Dt), Andhra Pradesh, India, Pincode: 524 004	India	Indi
Dr. Nellore Manoj Kumar	Independent Researcher, Founder & CEO, Infinite-Research Organization, B.O. 15-225, Gollapalem, Venkatagiri, Tirupati District, Andhra Pradesh, India, Pincode: 524132	India	Indi
Mr. B. Siva Sankar	Assistant Professor, Department of IT, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India	Indi
Dr. Peddireddi Sivakrishna	Professor, Department of CSE, Sree Rama Engineering College, Tirupati, Andhra Pradesh, India, Pincode: 517507	India	Indi

Abstract:

The proposed invention is a Deep Learning-Integrated Power Management System for Electric Vehicles designed to optimize energy usage, improve efficiency, and enhance reliability. Utilizing advanced deep learning algorithms, the system processes real-time data from vehicle sensors, user inputs, and environmental factors to make dynamic adjustments in power distribution. It predicts energy consumption patterns, enabling proactive power management and predictive maintenance. The system adapts to different driving conditions and vehicle types, offering personalized and responsive operation. Integration with external data sources, such as traffic and weather updates, further enhances energy management. This innovative approach enhances the overall performance of electric vehicles, supports sustainability, and contributes to the broader adoption of electric mobility.

Complete Specification

Description:The present invention relates to the integration of deep learning algorithms within power management systems specifically designed for electric vehicles (EVs). This innovative system leverages advanced machine learning techniques to optimize energy usage, improve battery efficiency, and extend the overall lifespan of EV power systems. By analyzing real-time data from various vehicle sensors and external sources, the deep learning-integrated power management system can make predictive adjustments to power distribution and consumption. This results in enhanced performance and reliability across diverse applications, including urban commuting, long-distance travel, and commercial transportation. The invention aims to address the challenges of energy efficiency, predictive maintenance, and adaptive power control, ultimately contributing to the advancement of sustainable and intelligent transportation solutions.

Background of the proposed invention:

The rapid evolution of electric vehicles (EVs) has marked a significant shift in the automotive industry, driven by the need for sustainable transportation solutions that reduce dependency on fossil fuels and mitigate environmental impact. As the adoption of EVs increases, there is a growing demand for innovative technologies that enhance their performance, efficiency, and reliability. One critical aspect of EV technology is power management, which involves the efficient utilization and distribution of electrical energy within the vehicle's system. Effective power management is crucial not only for optimizing battery usage and extending vehicle range but also for ensuring the longevity and safety of the EV's power components.

Traditional power management systems in electric vehicles primarily rely on predetermined algorithms and rule-based approaches to regulate energy flow. While these methods provide basic functionality, they often lack the adaptability and precision required to address the dynamic and complex nature of real-world driving conditions. Consequently, there is a need for more sophisticated solutions that can dynamically adjust to varying operational parameters and optimize energy use in real-time.

[View Application Status](#)


Terms & conditions (<http://ipindia.gov.in/terms-conditions.htm>) Privacy Policy (<http://ipindia.gov.in/privacy-policy.htm>)

Copyright (<http://ipindia.gov.in/copyright.htm>) Hyperlinking Policy (<http://ipindia.gov.in/hyperlinking-policy.htm>)

Accessibility (<http://ipindia.gov.in/accessibility.htm>) Archive (<http://ipindia.gov.in/archive.htm>) Contact Us (<http://ipindia.gov.in/contact-us.htm>)

Help (<http://ipindia.gov.in/help.htm>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019