

(54) Title of the invention : MULTI OBJECTIVE OPTIMIZATION OF ELECTRIC VEHICLE CHARGING SCHEDULING

(51) International classification :H02J0003380000, G05B0015020000, B60L0053660000, G06Q0010040000, G06Q0020400000

(86) International Application No :NA
 Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
 Filing Date :NA

(62) Divisional to Application Number :NA
 Filing Date :NA

(71)Name of Applicant :
1)SRIKANTH VADLAMUDI
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, ANURAG UNIVERSITY, HYDERABAD-500088, TELANGANA, INDIA. -----

2)DR.JIBITESH KUMAR PANDA
3)S.RAHUL
4)PULKIT KUMAR
5)DR. HARPREET KAUR CHANNI
6)DR.SK.ABDUL PASHA
7)DR. DAMALA.RAJESH BABU
8)DR.B.SURESH BABU
9)PARMINDER SINGH
10)ARYAN KESARWANI
 Name of Applicant : NA
 Address of Applicant : NA

(72)Name of Inventor :
1)SRIKANTH VADLAMUDI
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, ANURAG UNIVERSITY, HYDERABAD-500088, TELANGANA, INDIA. -----

2)DR.JIBITESH KUMAR PANDA
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, ANURAG UNIVERSITY, HYDERABAD-500088, TELANGANA, INDIA. -----

3)S.RAHUL
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, K S R INSTITUTE FOR ENGINEERING AND TECHNOLOGY, TIRUCHENGODE – 637215, NAMAKKAL, INDIA. -----

4)PULKIT KUMAR
 Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF ELECTRICAL ENGINEERING, CHANDIGARH UNIVERSITY, GHARUAN, MOHALI, PUNJAB – 140413. -----

5)DR. HARPREET KAUR CHANNI
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL ENGINEERING, CHANDIGARH UNIVERSITY, GHARUAN, MOHALI, PUNJAB – 140413. -----

6)DR.SK.ABDUL PASHA
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING, INSTITUTE OF AERONAUTICAL ENGINEERING(IARE), DUNDIGAL, HYDERABAD - 500043, TELENGANA, INDIA. -----

7)DR. DAMALA.RAJESH BABU
 Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRICAL AND ELECTRONICSENGINEERING, GMR INSTITUTE OF TECHNOLOGY, GMR NAGAR, RAJAM, VIZIANAGARAM DISTRICT – 532127, ANDHRA PRADESH, INDIA. -----

8)DR.B.SURESH BABU
 Address of Applicant :PROFESSOR, DEPARTMENT OF ELECTRICAL ENGINEERING, SANDIP INSTITUTE OF TECHNOLOGY AND RESEARCH CENTRE, MAHIRAVANI, TRIMBAK ROAD, NASHIK – 422213, MAHARASHTRA, INDIA. -----

9)PARMINDER SINGH
 Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF ELECTRICAL ENGINEERING, CHANDIGARH UNIVERSITY, GHARUAN, MOHALI, PUNJAB – 140413. -----

10)ARYAN KESARWANI
 Address of Applicant :STUDENT, DEPARTMENT OF COMPUTER SCIENCE ENGINEERING, CHANDIGARH UNIVERSITY, GHARUAN, MOHALI, PUNJAB – 140413. -----

(57) Abstract :
 An advanced system for optimizing electric vehicle (EV) charging schedules is presented, incorporating real-time data analytics, predictive algorithms, and user customization to efficiently manage energy consumption. This system aims to balance multiple objectives, including minimizing electricity costs, optimizing the use of renewable energy, reducing grid load during peak times, and catering to individual user charging needs. The invention's adaptability allows it to integrate seamlessly with existing EV infrastructure, offering a scalable and user-friendly solution that enhances the sustainability and economic viability of EV charging.

No. of Pages : 17 No. of Claims : 10