



(<http://ipindia.nic.in/index.htm>)



(<http://ipindia.nic.in>)

Patent Search

Invention Title	MACHINE LEARNING-BASED APPROACHES TO ANALYZE THE VEHICLE ACTIVE STEERING STABILITY CONTROL BASED ON VARIABLE TIME INPUT AND STATE INFORMATION PREDICTION IN A SUPERCAPACITOR FOR ENERGY STORAGE
Publication Number	36/2023
Publication Date	08/09/2023
Publication Type	INA
Application Number	202341057325
Application Filing Date	26/08/2023
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N0020000000, B60W0030045000, H02J0007340000, B60W0010200000, B60T0008175500

Inventor

Name	Address	Country
Dr. M. Pandian	Professor, Department of Mechanical Engineering, Erode Sengunthar Engineering College, Thudupathi Post, Perundurai Taluk, Erode District. Pin: 638057, Tamilnadu, India	India
Manojkumar.S	Assistant professor, Department of Mechanical Engineering Madanapalle institute of technology and science Angallu Madanapalle tk Chittoor dist Andrapradesh 517325 India	India
Dr. Pasupuleti Subrahmanya Ranjit	Professor, Dept. of Mechanical Engineering, Aditya Engineering College, Surampalem, 533437, Kakinada, Andhra Pradesh, India	India
M.Rajasekar	Associate Professor/Computer Science Engineering,VSB College of Engineering Technical Campus, Coimbatore,642109, Tamilnadu, India	India
Dr Ch N Santhosh Kumar	Professor, Department of Computer Science and Engineering (Data Science), Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode 500043	India
B.Marikumar	Assistant Professor/Computer Science And Engineering, V.S.B College Of Engineering Technical Campus, Coimbatore,642109, Tamilnadu, India	India
G Jagadeesh	Assistant Professor, Department Of Mathematics, V.S.B College Of Engineering Technical Campus, Coimbatore, 642109, Tamilnadu, India	India
Mr K Venkataramana	Associate Professor, Departement of CSE, QIS College of Engineering and Technology, Ongole,523272, Sri Kalahasti, Tirupati, Andrapradesh, India	India
Dr Ganapathi Rao Gajula	Assistant Professor, Department of Computer Science and Engineering (Data Science), Institute of Aeronautical Engineering, Dundigal, Hyderabad, Malkangiri, Telangana, India, Pincode 500043	India
Dr Balaji V	Associate Professor/EEE, MAI-NEFHI College of Engineering and Technology,ASMARA ,Eritria	Eritrea
Dr Balaji V	Associate Professor/EEE, MAI-NEFHI College of Engineering and Technology,ASMARA ,Eritria	India
Priyank Udaybhai Trivedi	Research Student, Institute of Infrastructure Technology Research and Management, Maninagar, Ahmedabad, Gujarat, India	India
Jyoti prasad patra	Professor Head EE And EEE Krupajal Engineering College Kec Pubasasan Prasanthi Vihar Kausalyaganga Near CIFA District Puri Bhubaneswar Khurda Odisha India Pin 751002	India

Applicant

Name	Address	Country
Dr. M. Pandian	Professor, Department of Mechanical Engineering, Erode Sengunthar Engineering College, Thudupathi Post, Perundurai Taluk, Erode District. Pin: 638057, Tamilnadu, India	India
Manojkumar.S	Assistant professor, Department of Mechanical Engineering Madanapalle institute of technology and science Angallu Madanapalle tk Chittoor dist Andrapradesh 517325 India	India
Dr. Pasupuleti Subrahmanya Ranjit	Professor, Dept. of Mechanical Engineering, Aditya Engineering College, Surampalem, 533437, Kakinada, Andhra Pradesh, India	India
M.Rajasekar	Associate Professor/Computer Science Engineering,VSB College of Engineering Technical Campus, Coimbatore,642109, Tamilnadu, India	India
Dr Ch N Santhosh Kumar	Professor, Department of Computer Science and Engineering (Data Science), Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode 500043	India
B.Marikumar	Assistant Professor/Computer Science And Engineering, V.S.B College Of Engineering Technical Campus, Coimbatore,642109, Tamilnadu, India	India
G Jagadeesh	Assistant Professor, Department Of Mathematics, V.S.B College Of Engineering Technical Campus, Coimbatore, 642109, Tamilnadu, India	India
Mr K Venkataramana	Associate Professor, Departement of CSE, QIS College of Engineering and Technology, Ongole,523272, Sri Kalahasti, Tirupati, Andrapradesh, India	India
Dr Ganapathi Rao Gajula	Assistant Professor, Department of Computer Science and Engineering (Data Science), Institute of Aeronautical Engineering, Dundigal, Hyderabad, Malkangiri, Telangana, India, Pincode 500043	India
Dr Balaji V	Associate Professor/EEE, MAI-NEFHI College of Engineering and Technology,ASMARA ,Eritrea	Eritrea
Dr Balaji V	Associate Professor/EEE, MAI-NEFHI College of Engineering and Technology,ASMARA ,Eritrea	Eritrea
Priyank Udaybhai Trivedi	Research Student, Institute of Infrastructure Technology Research and Management, Maninagar, Ahmedabad, Gujarat, India	India
Jyoti prasad patra	Professor Head EE And EEE Krupajal Engineering College Kec Pubasasan Prasanthi Vihar Kausalyaganga Near CIFA District Puri Bhubaneswar Khurda Odisha India Pin 751002	India

Abstract:

MACHINE LEARNING-BASED APPROACHES TO ANALYZE THE VEHICLE ACTIVE STEERING STABILITY CONTROL BASED ON VARIABLE TIME DOMAIN INPUT AND STATE INI PREDICTION IN A SUPERCAPACITOR FOR ENERGY STORAGE The present invention relates to machine learning-based methods for analyzing and controlling vehicle ac stability. The methods involve utilizing variable time domain input and state information prediction through a supercapacitor-based energy storage system. The discl techniques enable improved vehicle stability control through the integration of machine learning algorithms and energy storage components

Complete Specification

Description:FIELD OF THE INVENTION

The invention pertains to the field of vehicle control systems, specifically in the domain of active steering stability control using machine learning techniques and supercapacitor energy storage.

BACKGROUND OF THE INVENTION

The following description of related art is intended to provide background information pertaining to the field of the disclosure. This section may include certain aspects of the art that may be related to various features of the present disclosure. However, it should be appreciated that this section be used only to enhance the understanding of the reader with respect to the present disclosure, and not as admissions of prior art.

Traditional active steering stability control systems for vehicles often rely on fixed control algorithms that may not adapt well to dynamic and varying driving conditions. Additionally, energy storage systems play a crucial role in providing rapid bursts of power required for steering adjustments. The present invention addresses these limitations by combining machine learning-based control strategies with supercapacitor-based energy storage for enhanced vehicle stability contrc Vehicle stability is of paramount importance in ensuring the safety and comfort of passengers and drivers.

Modern vehicles are equipped with various control systems to enhance stability, including anti-lock

[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