

CRITERIA III

3.3.2 Copy of The Cover Pages, Content Page and First Page of the Publication indicating ISBN Number and Year of the Publication for books /chapters(IEEE)

1)2022-23

1)Web link:-<https://ieeexplore.ieee.org/document/10117574>

Conferences > 2023 Third International Conf...

Speed Control of BLDC Motor using Integral Sliding Mode Controller

Publisher: IEEE [Cite This](#) [PDF](#)

Omkar Dange ; Nilam Patil ; Swapnil Gadgune ; Rajin M Linus **All Authors**

1 Cites in Paper 94 Full Text Views

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Abstract	Abstract:
Document Sections	The BLDC motor is popular choice for many applications. These systems require accurate tracking of speed command. In this paper, Integral Sliding Mode controller (ISM) based speed controller is proposed. The performance of BLDC drive is analyzed with constant load and constant speed operation. Hysteresis current control technique is used to generate pulses for inverter switches. The drive is simulated using MATLAB/Simulink software. The results are presented for validation.
I. Introduction	
II. BLDC Motor Drive	
III. Control Scheme	Published in: 2023 Third International Conference on Advances in Electrical, Computing, Communication and Sustainable Technologies (ICAECT)
IV. Simulation Results	Date of Conference: 05-06 January 2023
V. Conclusion	DOI: 10.1109/ICAECT57570.2023.10117574
Authors	Date Added to IEEE Xplore: 15 May 2023
Figures	Publisher: IEEE
References	Conference Location: Bhilai, India
	▼ ISBN Information:
	Electronic ISBN: 978-1-6654-9400-7
	Print on Demand(PoD) ISBN: 978-1-6654-9401-4

Web Link:-<https://ieeexplore.ieee.org/document/10094557>

Conferences > 2022 International Conference...

Series APF control using IRP Theory with Self-Regulation of DC side Voltage

Publisher: IEEE

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PDF

Shreyas Kusale; Ch. Mallareddy; Swapnil Gadgune; A. M. Mulla [All Authors](#)

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Abstract
Document Sections
I. Introduction
II. Series Active Power Filter
III. Control Technique
IV. Simulation Results
V. Conclusion
Authors
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Abstract:

In Recent years use of converter-based energy efficient devices is tremendously increased. This injects current and voltage harmonics in to the power system. Series APF is used to mitigate voltage harmonics. In this paper, a new control technique presented. It is able to mitigate harmonics and charge DC side capacitor by itself. It does it without using any battery or any other source. Instantaneous reactive power theory is used to control the Series APF. MATLAB/Simulink is used to prepare simulation. Simulation results are presented, which validates the proposed scheme.

Published in: 2022 International Conference on Futuristic Technologies (INCOFT)

Date of Conference: 25-27 November 2022

DOI: 10.1109/INCOFT55651.2022.10094481

Date Added to IEEE Xplore: 13 April 2023

Publisher: IEEE

▼ ISBN Information:

Electronic ISBN:978-1-6654-5046-1

Conference Location: Belgaum, India

Print on Demand(PoD) ISBN:978-1-6654-5047-8

2)2021-22

Web Link: <https://ieeexplore.ieee.org/document/9686478>

Published in: 2021 IEEE Pune Section International Conference (PuneCon)

Date of Conference: 16-19 December 2021

DOI: 10.1109/PuneCon52575.2021.9686478

Date Added to IEEE Xplore: 31 January 2022

Publisher: IEEE

▼ ISBN Information:

Conference Location: Pune, India

Electronic ISBN:978-1-6654-4479-8

USB ISBN:978-1-6654-4478-1

Print on Demand(PoD) ISBN:978-1-6654-4480-4

Conferences > 2021 IEEE Pune Section Intern...

A Review On Determination Of Soil Organic Matter and Soil Moisture Content Using Conventional Methods And Image Processing Techniques

Publisher: IEEE

Cite This

PDF

Vaishali S. Patil ; Santosh A. Shinde ; Nandkishor M. Dhawale **All Authors**

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Papers

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Abstract

Document Sections

- I. Introduction
- II. Literature Review
- III. Conclusion

Authors

Figures

References

Citations

Keywords

Metrics

Abstract:

Soil Organic Matter (SOM) and Soil Moisture Content (SMC) are very useful and important soil properties through which it is possible to monitor agricultural treatments of chemical inputs to soil for the plants. One of the physical benefit of SOM is it gives aggregate stability which results in reduce crusting, improves water holding capacity, improves water filtration capacity and pour space and air distribution by increasing SOM content. Soil moisture tension is the density of water holding capacity. The different types soil analysis techniques are available, but traditional methods are laborious time consuming as well as do not guaranteed accuracy of information in short window of time needed during the crop growing seasons. So there is need to seek for easler and proper methods of analyzing soil that are simple, precise, quick and economical in labs or/and in field.

Researchers have studied the estimation of various methods for rapid quantification and monitoring of some surface soil properties such as SOM and SMC. The purpose of this work is to explore the possibilities and limitations of traditional and new techniques for soil analysis. Therefore, the review has been carried out for the determination of SOM and SMC using image processing.

Published in: 2021 IEEE Pune Section International Conference (PuneCon)

Date of Conference: 16-19 December 2021

DOI: 10.1109/PuneCon52575.2021.9686478

Web Link:-<https://ieeexplore.ieee.org/document/9782053>

Renewable Energy based Isolated Contactless Bidirectional Energy Management System for Electric Vehicle

Publisher: IEEE

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[PDF](#)

Balasaheb M. Patil ; Swapnil Y. Gadgune [All Authors](#)

1

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Abstract

Document Sections

- I. Introduction
- II. System Design
- III. SIMULATION AND RESULTS
- IV. Hardware implementation and Results
- V. Results of Hardware

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Abstract:

There are alternative answers to the problem of charging electric vehicles in a world where electric charging stations are essential to accelerate the energy transition. As an example, wireless charging is one way to go. There are a number of differences between wireless car charging and smartphone charging. An isolated contactless bidirectional energy management system for an electric vehicle based on renewable energy is given in this research. Inductive charging allows electric vehicles to self-charge without the usage of cables. A higher voltage, more power, and more energy transfer are required to charge an electric vehicle (EV). So, technical developments, safety, cost, and the environment are all significantly more difficult to deal with as a result. This is owing to the fact that EV charging requires high voltage and high power, which makes wireless charging solutions problematic. There's an additional charge that must be built into the car in order for wireless charging to work, which increases the cost of your vehicle. As part of the proposed system, infrastructure costs may be reduced, and power can be transmitted more effectively. There is the prospect of fast charging, as well as reduced maintenance requirements and almost no electromagnetic emissions, among other benefits of this technology.

Published in: 2021 4th International Conference on Recent Trends in Computer Science and Technology (ICRTCST)

Published in: 2021 4th International Conference on Recent Trends in Computer Science and Technology (ICRTCST)

Date of Conference: 11-12 February 2022

DOI: 10.1109/ICRTCST54752.2022.9782053

Date of Conference: 11-12 February 2022

DOI: 10.1109/ICRTCST54752.2022.9782053

Date Added to IEEE Xplore: 27 May 2022

Publisher: IEEE

▼ ISBN Information:

Electronic ISBN:978-1-6654-6633-2

Conference Location: Jamshedpur, India

Print on Demand(PoD) ISBN:978-1-6654-6634-9

Web Link:-<https://ieeexplore.ieee.org/document/9707979/authors#authors>

Published in: 2021 4th International Conference on Recent Trends in Computer Science and Technology (ICRTCST)

Date of Conference: 11-12 February 2022

DOI: 10.1109/ICRTCST54752.2022.9782053

Date Added to IEEE Xplore: 27 May 2022

Publisher: IEEE

▼ **ISBN Information:**

Electronic ISBN:978-1-6654-6633-2

Print on Demand(PoD) ISBN:978-1-6654-6634-9

Conference Location: Jamshedpur, India

Conferences > 2021 5th International Confer...

Review of wireless power transfer for EV with advancement in designs

Publisher: IEEE

Cite This

PDF

Balasaheb M. Patil ; Swapnil Y. Gadgune **All Authors**

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Abstract

Document Sections

- I. Introduction
- II. Basic theory
- III. Design of the Magnetic Coupler
- IV. Compensation Network
- V. Aspects of WPT

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Authors

Abstract:
Drastic Indian wireless power transfer (WPT) human interference in EV charging process with the help of Magnetic resonance. inductive power transfer is the key to WPT in recent years distance barriers are changed from millimeters to kilometers with great efficiency. In this paper, an advanced technique that has been invented in several years is focused. Also how battery size reduction can achieve with several techniques are taken into the picture.

Published in: 2021 5th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICECCOT)

Date of Conference: 10-11 December 2021

DOI: 10.1109/ICECCOT52851.2021.9707979

Date Added to IEEE Xplore: 16 February 2022

Publisher: IEEE

► **ISBN Information:**

Conference Location: Mysuru, India

Published in: 2021 5th International Conference on Electrical, Electronics, Communication, Computer Technologies and Optimization Techniques (ICECCOT)

Date of Conference: 10-11 December 2021

DOI: 10.1109/ICECCOT52851.2021.9707979

Date Added to IEEE Xplore: 16 February 2022

Publisher: IEEE

▼ **ISBN Information:**

Electronic ISBN:978-1-6654-3272-6

Print on Demand(PoD) ISBN:978-1-6654-3273-3

Conference Location: Mysuru, India

Web Link <https://ieeexplore.ieee.org/document/9753184>

Performance Analysis of a Nine Level Cascaded H-Bridge Multilevel Inverter In Comparison To Comparable Lower-Level Topologies

Publisher: IEEE

Cite This

PDF

Teja Ramchandra Shenai ; Sneha Arun Patil All Authors

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Abstract

Document Sections

- I. Introduction
- II. Description of Multilevel Inverter
- III. Matlab Simulation
- IV. Techniques of Control and Modulation
- V. Pulse Generation

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Abstract:

Multilevel inverters area unit utilized in varied sectors, further as in domain, for medium voltage and high power applications. MLI generates the specified output within the variety of stepped waveforms with low harmonics. Various voltage levels in MLI can be used to generate alternating voltage with a step structure. With less harmonic distortion, this is similar to sinusoidal waveforms. Traditional MLI has the disadvantage of necessitating a wider range of components, which increases the quality of gate pulse generation. As a consequence, its general price rises. MLI topologies with more power switches have a higher number of harmonics in their output voltage waveform. This work proposes a cascaded H bridge MLI architecture to address these issues. This type of MLI reduces the filter requirement for the production of AC. For modern technical development in industries or power sectors cascaded MLI is used. It has many advantages over the conventional two-level inverter. This topology wants fewer elements once it's compared to the traditional topologies. The most important issue of this investigation is the simulation results of three, five, seven, and nine level Single-Phase CHBMLI, as well as their THD values. The THD is discussed for each level with the help of the simulation result. In this proposed method SPDM technique using Triangular Multiple Carrier waves is used. MATLAB/ SIMULINK software system is employed to simulate all configurations and therefore the results of every level are compared.

Published in: 2022 IEEE Delhi Section Conference (DELCON)

Published in: 2022 IEEE Delhi Section Conference (DELCON)

Date of Conference: 11-13 February 2022

DOI: 10.1109/DELCON54057.2022.9753184

Date Added to IEEE Xplore: 20 April 2022

Publisher: IEEE

▼ ISBN Information:

Electronic ISBN:978-1-6654-5883-2

Print on Demand(PoD) ISBN:978-1-6654-5884-9

Conference Location: New Delhi, India

Web Link <https://ieeexplore.ieee.org/document/9686540>

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Conferences > 2021 IEEE Pune Section Intern... ?

Covid Protocol Management System-Application and Algorithm

Publisher: IEEE

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PDF

Akhilesh Joshi ; Indraje Dandekar ; Ashutosh Dandekar ; Nitin Patil; Pankaj Awate; Sawan Wani [All Authors](#)

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Abstract	Abstract:
Document Sections	The outbreak of COVID-19 began in China in the month December 2019, and gradually spread all over the world in the following two or three months. The lockdown has been implemented since last year in most parts of the world to avoid the threat of infection. The entire global economy had somewhat halted for nearly one year. The business sectors including manufacturing, service, education, tourism, agriculture, art, and entertainment have been facing difficulties due to the lockdown [1]. Recently the second wave of COVID 19 has affected India in a brutal way, hence the restrictions are tightened. However, restrictions on the businesses have been imposed to avoid public gatherings and ensure safety measures. The Indian economy is affecting due to these lockdown cycles. Although efforts are being made to adopt alternative working methods, we cannot go ahead with lockdown for a long time. All the activities can be restarted by taking safety measures for the masses. For businesses like grocery shops, hotels, malls; a data analysis tool can be developed which keeps the records of all the visitors along with their health conditions [2]. It can also facilitate the customer to book the time slot in advance for visiting purposes. It can alert the shop owners, customers, and authorities in case of danger as well. The tool will be helpful for small and medium
I. Introduction	
II. Idea and Necessity	
III. Proof of Concept	
IV. Data Collection	
V. Concept of Accessible Area of the Shop: [6]	

More Like This

Corona Larona: A 2.5D Mobile Game Advocating COVID-19 Safety Protocols and Mitigation Strategies

2022 IEEE 14th International Conference on Humanoid, Nanotechnology, Information Technology, Communication and Control, Environment, and Management (HNICEM)
Published: 2022

Distance and Temperature Self-... Feedback

Published in: 2021 IEEE Pune Section International Conference (PuneCon)

Date of Conference: 16-19 December 2021

DOI: 10.1109/PuneCon52575.2021.9686540

Date Added to IEEE Xplore: 31 January 2022

Publisher: IEEE

▼ **ISBN Information:**

Conference Location: Pune, India

Electronic ISBN:978-1-6654-4479-8

USB ISBN:978-1-6654-4478-1

Print on Demand(PoD) ISBN:978-1-6654-4480-4

3)2019-20

Web Link:-<https://ieeexplore.ieee.org/document/9105807/similar#similar>

The screenshot shows the IEEE Xplore interface. At the top, there are navigation links for IEEE.org, IEEE Xplore, IEEE SA, IEEE Spectrum, and More Sites. A search bar is present with a dropdown menu set to 'All' and a search icon. Below the search bar, the breadcrumb trail reads 'Conferences > 2019 IEEE Pune Section Intern...'. The main title of the article is 'Application of Internet of the Things(IOT) for the Water Conservation and Entrepreneurship in the Rural Area'. The publisher is listed as IEEE, with options to 'Cite This' and 'PDF'. The authors are Akhilesh Joshi, Indrajda Dandekar, Narayan Hargude, A.P Shrotri, and A.R Dandekar. On the left, there are statistics: 6 Cites in Papers and 242 Full Text Views. The abstract section is partially visible, starting with 'The concept of smart village is now becoming more popular across the world. After the revolution of the internet, there are drastic changes in human life. The population of the metro cities is enjoying the facilities created due to net connectivity. But in the case of rural areas; still, some of the regions are distinct from modern trends. Hence, it is essential to provide to them the basic facilities and improve their living standards, economy. The smart village is the concept that expects more than the provision of basic facilities. It includes enrichment of rural areas using the internet and digitization. There are domains like Education, Healthcare, Energy conservation, Sanitation in which we can consider the use of digital tools to improve the quality standards of the village population. Water management is the thrust field in which the IOT can be used effectively and efficiently for the rural areas. Many villages have been facing drought-like situations even after sufficient rainfall. Hence Water Management and conservation are the only ways for them to avoid such troubles. Also, the villagers move to urban areas in search of the food and employment. Unemployment is the biggest challenge in rural area. Using the IOT, opportunities can be...'. On the right, there is a promotional banner for 'Need Full-Text access to IEEE Xplore for your organization?' with a 'CONTACT IEEE TO SUBSCRIBE' button. Below the banner, there is a 'More Like This' section with two related articles: 'Software based gateway with distributed flow environment for medical IoT in rural areas' and 'Performance Evaluation of RF-Powered IoT in Rural Areas: The Wireless Power Digital Divide'. The bottom of the screenshot shows a Windows taskbar with various application icons and a search bar.

Published in: 2019 IEEE Pune Section International Conference (PuneCon)

Date of Conference: 18-20 December 2019

DOI: 10.1109/PuneCon46936.2019.9105807

Date Added to IEEE Xplore: 02 June 2020

Publisher: IEEE

▼ ISBN Information:

Conference Location: Pune, India

Electronic ISBN:978-1-7281-1924-3

CD:978-1-7281-1923-6

Print on Demand(PoD) ISBN:978-1-7281-1925-0

4)2018-2019

Web Link:-<https://ieeexplore.ieee.org/document/8550870>

Conferences > 2018 International Conference...

MPPT Based Non-Isolated Step-up Converter for PV Applications

Publisher: IEEE

Cite This

PDF

Mrunali Satpute ; Sabiya Mulla ; V.B. Savakhande ; Supriya Chougule ; Snehal Patil ; Mangesh A. Chewale [All Authors](#)

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Abstract

Document Sections

I. Introduction

II. System Configuration

III. PV Modelling

IV. MPPT Algorithm

V. Circuit Configuration

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Authors

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References

Abstract:

PV has the range of applications for tomorrow but due to unpredictable output in nature it requires modification before use. Proposed step up converter based on the two principles of coupled inductor and diode capacitor technique. Which lead to give higher output conversion and greater efficiency. Maximum Power Point Tracking(MPPT) is used to modify the efficiency of PV. This system is applicable for fuel cell, HID head lamps, vehicles.

Published in: 2018 International Conference on Current Trends towards Converging Technologies (ICCTCT)

Date of Conference: 01-03 March 2018

DOI: 10.1109/ICCTCT.2018.8550870

Date Added to IEEE Xplore: 29 November 2018

Publisher: IEEE

ISBN Information:

Conference Location: Coimbatore, India

Electronic ISBN:978-1-5386-3702-9

DVD ISBN:978-1-5386-3700-5

Print on Demand(PoD) ISBN:978-1-5386-3703-6

Web Link:-<https://ieeexplore.ieee.org/document/8550918>

A Review on UPQC for Power Quality Enhancement in Distribution System

Publisher: IEEE

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[PDF](#)

R.A. Wanjari ; V.B. Savakhande ; M. A. Chewale ; P.R. Sonawane ; R. M. Khobragade [All Authors](#)

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Abstract

Document Sections

- I. Introduction
- II. Power Quality Problems
- III. Unified Power Quality Conditioner (UPQC)
- IV. UPQC Classification
- V. Modulation and Control Technique for Upqc

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Authors

Figures

Abstract:

In contemporary years, engineers are progressive ly anxious over the quality of the electrical power. In current power system contain sextensive array of power electronic and electrical apparatus into industrial and commercial applications. There is more number of electronics equipment which is in nonlinear manner which induce a power quality complications like harmonics, voltage sag, voltage swell in the system. Regarding to this power quality issues there is a many compensating devices available but among those Unified Power Quality Conditioner which have a tendency to combine shunt active and series active power filters to alleviate the any kind of voltage mitigation and improves the current variations and also it performs a power factor modification in a network like distribution. Hence at the point of common link we can get an improved power quality like smooth current and rated voltage. In This paper presents a complete literature review on the unified power quality conditioner (UPQC) to improve the electric power quality at distribution levels. This is proposed to present a extensive outline on the different probable UPQC system formation.

Published in: 2018 International Conference on Current Trends towards Converging Technologies (ICCTCT)

Date of Conference: 01-03 March 2018

DOI: 10.1109/ICCTCT.2018.8550918

Date Added to IEEE Xplore: 29 November 2018

Publisher: IEEE

Published in: 2018 International Conference on Current Trends towards Converging Technologies (ICCTCT)

Date of Conference: 01-03 March 2018

DOI: 10.1109/ICCTCT.2018.8550918

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Publisher: IEEE

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Print on Demand(PoD) ISBN:978-1-5386-3703-6

Conference Location: Coimbatore, India

Home > [ICDSMLA 2019](#) > Conference paper

Sinusoidal Tracking Algorithm Based Voltage Oriented Control of Harmonic Less Rectifier

Conference paper | First Online: 19 May 2020

pp 1633–1641 | [Cite this conference paper](#)



ICDSMLA 2019

Swapnil Y. Gadgune , Utkarsh V. Patil & P. M. Joshi

 Part of the book series: [Lecture Notes in Electrical Engineering](#) ((LNEE, volume 601))

 53 Accesses

Abstract

This paper analyses the operation of rectifier using Sinusoidal Tracking Algorithm (STA). The algorithm is simple and capable of extracting fundamental component. Better current waveform, harmonic less operation is possible by this method. The unity power factor, DC link voltage regulation are also possible. Hysteresis Current Controller is used for generating gate pulses. The proposed method is simulated using MATLAB/Simulink

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