

Review on Energy Management Systems for Hybrid E Vehicles

Publisher: IEEE

[Cite This](#) [PDF](#)

Vaishali A. Katkar ; Perna Goswami [All Authors](#)

69 Full Text Views

[R](#) [Share](#) [Copyright](#) [Print](#) [Alert](#)

Abstract

Document Sections

- I. Introduction
- II. Energy Management Systems for HEVS/PHEVS
- III. Conclusion

Authors

Figures

References

Keywords

Metrics

Abstract:

In recent years, there has been a significant increase in the automotive industry, which has increased the number of vehicles based on internal combustion engines (ICEs). Limitation of oil supplies and environmental degradation caused by emissions from ICE-based vehicles raises the need for energy efficient and environmentally sustainable vehicles. Today, eco-friendly, durable and powerful electric vehicles (EVs) have drawn global interest in the automotive sector. The efficiency of Hybrid Electric Vehicles (HEV s) is highly dependent on the battery life. Energy management in Hybrid Electric Vehicles (HEV s) and Plug-in Hybrid Electric Vehicles (PHEVs) is therefore critical for improving the battery life without affecting the performance of the vehicle. This paper points out in depth the different control methods implemented for energy management, such as rules-based and optimizing energy management systems. It also focuses on the recent development of energy management algorithms focused on Deep Learning.

Published in: 2020 International Conference on Power, Energy, Control and Transmission Systems (ICPECTS)

Date of Conference: 10-11 Dec. 2020 **INSPEC Accession Number:** 20424082

Date Added to IEEE Xplore: 09 February 2021 **DOI:** 10.1109/ICPECTS49113.2020.9336977

Publisher: IEEE

Conference Location: Chennai, India

ISBN Information:

Need Full-Text

access to IEEE Xplore for your organization?

[CONTACT IEEE TO SUBSCRIBE >](#)

More Like This

Fuzzy logic energy management system of series hybrid electric vehicle
4th IET Clean Energy and Technology Conference (CEAT 2016)
Published: 2016

An energy management system for a battery ultracapacitor Hybrid Electric Vehicle
2009 International Conference on Industrial and Information Systems (ICIIS)
Published: 2009

[Show More](#)

IEEE Authors: Increase

[Feedback](#)