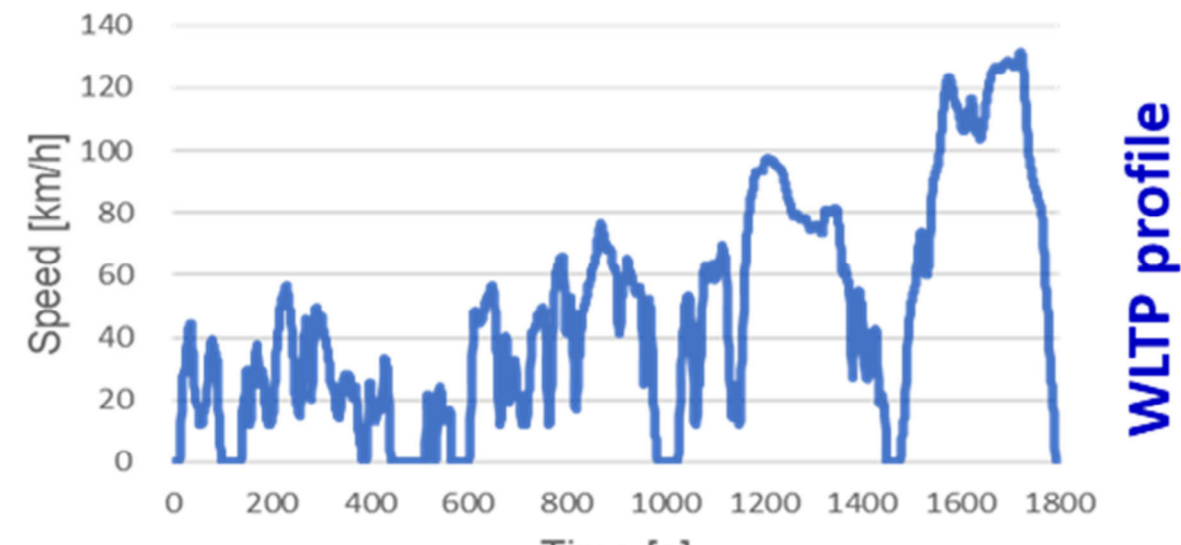




INTEGRATED ENERGY MANAGEMENT FOR FUEL CELL AND BATTERY SYSTEMS

Abstract: This paper presents a novel integrated energy management strategy for a fuel cell and battery system. The strategy is designed to optimize the system's performance and efficiency by dynamically adjusting the power distribution between the fuel cell and the battery based on the vehicle's operating conditions and the driver's behavior. The proposed strategy is compared with a conventional rule-based strategy, and the results show that the proposed strategy can significantly improve the system's efficiency and reduce the fuel consumption. The proposed strategy is implemented on a real-time platform, and its performance is evaluated using a driving cycle. The results show that the proposed strategy can significantly improve the system's efficiency and reduce the fuel consumption.

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The proposed strategy is implemented on a real-time platform, and its performance is evaluated using a driving cycle. The results show that the proposed strategy can significantly improve the system's efficiency and reduce the fuel consumption. The proposed strategy is compared with a conventional rule-based strategy, and the results show that the proposed strategy can significantly improve the system's efficiency and reduce the fuel consumption.

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CONCLUSION

The proposed strategy is implemented on a real-time platform, and its performance is evaluated using a driving cycle. The results show that the proposed strategy can significantly improve the system's efficiency and reduce the fuel consumption. The proposed strategy is compared with a conventional rule-based strategy, and the results show that the proposed strategy can significantly improve the system's efficiency and reduce the fuel consumption.