Fuel Cell: Challenges and Roles of Artificial Intelligence for Performance Improvement

Pankaj Kumar Dubey[1], Bindeshwar Singh[1], and Varun Kumar[1]

[1]Kamla Nehru Institute of Technology

November 18, 2022

Abstract

Fuel cells are used in many applications, from personal use to energy generation stations. The fuel cell systems consist of a fuel cell stack, and its componen O, thermal and electrical power. The entire system is efficient at maximum and half load, scales to a variety of sizes, is eco-friendly and has potentially comparable initial costs to conventional technologies. Portable electricity, mobility, cogeneration in buildings, and distributed electricity for utilities are promising applications for fuel cells. The vital barriers to the money orientation of fuel cells are pricing and longevity. We will talk about fuel cells, the classification of fuel cells, fuel cell problems, and how artificial intelligence can help improve the performance of fuel cells.

Hosted file

`Fuel Cell.docx` available at https://authorea.com/users/525795/articles/596037-fuel-cell-challenges-and-roles-of-artificial-intelligence-for-performance-improvement