Abstract

In this paper proposes different conventional and fuzzy based clustering techniques for fault detection and isolation in process plant monitoring. Process plant monitoring is very important aspect to improve productiveness and efficiency of the product and plant. This paper takes a case study of plant data and implements K means algorithm and fuzzy C means algorithm to
cluster the relevant data. This paper also discusses the comparison for K means algorithm and fuzzy C means algorithm.

Reference

- Zhe Song and Andrew Kusiak, “Constraint Based Control of Boiler Efficiency: A Data Mining Approach,” IEEE Transactions on Industrial Informatics, vol. 3, no. 1, 2007, pp. 73-83
no. 1, 2010, pp. 289-294

**Index Terms**

Computer Science  
Pattern Recognition

**Key words**

Conventional Clustering  
Fuzzy Based Clustering  
Fault Detection  
and Isolation