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
Data Clustering Approach to Industrial Process Monitoring, Fault Detection and Isolation

no. 1, 2010, pp. 289-294

Index Terms

Computer Science
Pattern Recognition

Key words

Conventional Clustering
Fuzzy Based Clustering
Fault Detection
and Isolation