【監測資料倉儲系統】

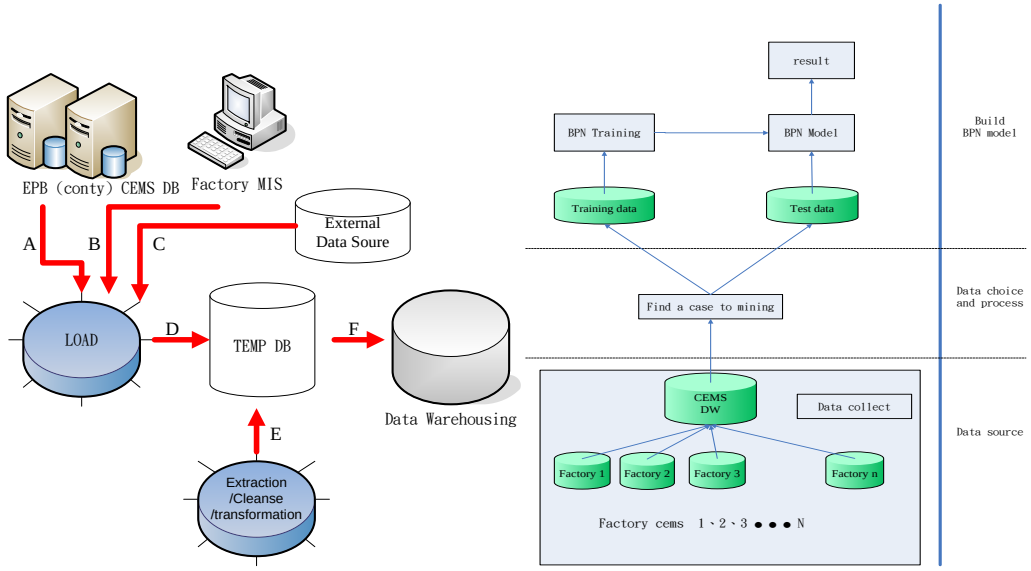
連續排放監控系統(Continuous Emission Monitoring System, CEMS)是一整套設備，可全天監控煙囪排放。通過從 CEMS 設備接收監測數據，可以建立友善數據查詢界面的中央數據庫。但是，中央數據庫無法在不對監控數據進行分類的情況下支持做出戰略決策，例如，我們想知道排放量預測因子的因素。本團隊將 CEMS 監視數據分類為數據倉庫並調查數據挖掘系統的研究。根據 CEMS 監控數據的特點設計數據倉庫的方案，然後在從源數據中提取數據的過程中完成數據轉換，建立了區域 CEMS 數據倉庫。通過使用神經網絡數據採礦技術及考慮監測數據的特徵，找出影響煙囪排放預測的因素。

【CEMS Data Warehouse】

The Continuous Emission Monitoring System, CEMS, is a package of equipment monitoring the stake emission all day. The central database with a friendly data query interface could be successfully established via receiving monitoring data from the CEMS equipment. However, the central database can't support making a strategic decision without categorizing the monitoring data, for example, we would like to know the factors of stake emission predictor.

We categorized the CEMS monitoring data as a data warehouse and surveying the data mining system. We design a schema of the data warehouse according to the characteristic of the CEMS monitoring data, then we accomplish data transformations during the process of extracting data from the source data and established a regional CEMS data warehouse.

By using the neural network mining technique and considering the characteristic of the monitoring data, we try to find out useful factors of the stake emission predictor.



監測資料倉儲系統(CEMS Data Warehouse)