

About Air Quality Dataset

Description:

This data set contains the responses of a gas multisensor device deployed on the field in an Italian city. Hourly responses averages are recorded along with gas concentrations references from a certified analyzer.

The dataset contains 9358 instances of hourly averaged responses from an array of 5 metal oxide chemical sensors embedded in an Air Quality Chemical Multisensor Device.

Objective is to assign a new instance on to a cluster.

Feature List:

Variable Name	Type	Description
Date	Date	
Time	Categorical	
CO(GT)	Integer	True hourly averaged concentration CO in mg/m^3 (reference analyzer)
PT08.S1(CO)	Categorical	hourly averaged sensor response (nominally CO targeted)
NMHC(GT)	Integer	True hourly averaged overall Non Metanic HydroCarbons concentration in microg/m^3 (reference analyzer)
C6H6(GT)	Continuous	True hourly averaged Benzene concentration in microg/m^3 (reference analyzer)
PT08.S2(NMHC)	Categorical	hourly averaged sensor response (nominally NMHC targeted)
NOx(GT)	Integer	True hourly averaged NOx concentration in ppb (reference analyzer)
PT08.S3(NOx)	Categorical	hourly averaged sensor response (nominally NOx targeted)
NO2(GT)	Integer	True hourly averaged NO2 concentration in microg/m^3 (reference analyzer)
PT08.S4(NO2)	Categorical	hourly averaged sensor response (nominally NO2 targeted)
PT08.S5(O3)	Categorical	hourly averaged sensor response (nominally O3 targeted)
T	Continuous	Temperature
RH	Continuous	Relative Humidity
AH	Continuous	Absolute Humidity