

Beijing Multi-Site Air-Quality Data Data Set

Download: Data Folder, Data Set Description

Abstract: This hourly data set considers 6 main air pollutants and 6 relevant meteorological variables at multiple sites in Beijing.

Data Set Characteristics:	Multivariate, Time-Series	Number of Instances:	420768	Area:	Physical
Attribute Characteristics:	Integer, Real	Number of Attributes:	18	Date Donated	2019-09-20
Associated Tasks:	Regression	Missing Values?	Yes	Number of Web Hits:	42573

Source:

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Data Set Information:

This data set includes hourly air pollutants data from 12 nationally-controlled air-quality monitoring sites. The air-quality data are from the Beijing Municipal Environmental Monitoring Center. The meteorological data in each air-quality site are matched with the nearest weather station from the China Meteorological Administration. The time period is from March 1st, 2013 to February 28th, 2017. Missing data are denoted as NA.

Attribute Information:

No: row number year: year of data in this row month: month of data in this row day: day of data in this row hour: hour of data in this row PM2.5: PM2.5 concentration (ug/m^3) PM10: PM10 concentration (ug/m^3) SO2: SO2 concentration (ug/m^3) NO2: NO2 concentration (ug/m^3) CO: CO concentration (ug/m^3) O3: O3 concentration (ug/m^3) TEMP: temperature (degree Celsius) PRES: pressure (hPa) DEWP: dew point temperature (degree Celsius) RAIN: precipitation (mm) wd: wind direction WSPM: wind speed (m/s) station: name of the air-quality monitoring site

Relevant Papers:

Zhang, S., Guo, B., Dong, A., He, J., Xu, Z. and Chen, S.X. (2017) Cautionary Tales on Air-Quality Improvement in Beijing. Proceedings of the Royal Society A, Volume 473, No. 2205, Pages 20170457.

Citation Request:

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