Forest Fire Data Description

Source

P. Cortez and A. Morais. “A Data Mining Approach to Predict Forest Fires using Meteorological Data,” published J. Neves, M. F. Santos and J. Machado Eds., New Trends in Artificial Intelligence, Proceedings of the 13th EPIA 2007 - Portuguese Conference on Artificial Intelligence, December, Guimaraes, Portugal, pp. 512-523, 2007. APPIA, ISBN-13 978-989-95618-0-9.

Data Set Information

This data was used for by Cortez and Morais to predicting forest fires using meteorological data (Reference: http://www.dsi.uminho.pt/~pcortez/fires.pdf).

Attribute Information

Number of Instances: 517

Number of Predictor Attributes: 12

`X` x-axis spatial coordinate within the Montesinho park map: 1 to 9
`Y` y-axis spatial coordinate within the Montesinho park map: 2 to 9
`Month` Month of the year: "jan" to "dec"
`Day` Day of the week: "mon" to "sun"
`FFMC` FFMC index from the FWI system: 18.7 to 96.20
`DMC` DMC index from the FWI system: 1.1 to 291.3
`DC` DC index from the FWI system: 7.9 to 860.6
`ISI` ISI index from the FWI system: 0.0 to 56.10
`Temp` Temperature in Celsius degrees: 2.2 to 33.30
`RH` Relative humidity in %: 15.0 to 100
`Wind` Wind speed in km/h: 0.40 to 9.40
`Rain` Outside rain in mm/m2 : 0.0 to 6.4

Number of Response Attributes: 1

`Area` The burned area of the forest (in ha): 0.00 to 1090.84 (this output variable is very skewed towards 0.0, thus it may make sense to model with the logarithm transform).