

Behavior of the urban traffic of the city of Sao Paulo in Brazil Data Set

Download: [Data Folder](#), [Data Set Description](#)

Abstract: The database was created with records of behavior of the urban traffic of the city of Sao Paulo in Brazil.

Data Set Characteristics:	Multivariate, Time-Series	Number of Instances:	135	Area:	Computer
Attribute Characteristics:	Integer, Real	Number of Attributes:	18	Date Donated	2018-12-12
Associated Tasks:	Classification, Regression	Missing Values?	N/A	Number of Web Hits:	48050

Source:

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Website: <http://www.uninove.br/curso/informatica-e-gestao-do-conhecimento/>

Data Set Information:

The database was created with records of behavior of the urban traffic of the city of Sao Paulo in Brazil from December 14, 2009 to December 18, 2009 (From Monday to Friday). Registered from 7:00 to 20:00 every 30 minutes. The data set Behavior of the urban traffic of the city of Sao Paulo in Brazil was used in academic research at the Universidade Nove de Julho - Postgraduate Program in Informatics and Knowledge Management.

Attribute Information:

1. Hour
2. Immobilized bus
3. Broken Truck
4. Vehicle excess
5. Accident victim
6. Running over
7. Fire Vehicles
8. Occurrence involving freight
9. Incident involving dangerous freight
10. Lack of electricity
11. Fire
12. Point of flooding

13. Manifestations
14. Defect in the network of trolleybuses
15. Tree on the road
16. Semaphore off
17. Intermittent Semaphore
18. Slowness in traffic (%) (Target)

.arff header for Weka:

```
@relation Behavior
@attribute Hour {7:00, 7:30, 8:00, 8:30, 9:00, 9:30, 10:00, 10:30, 11:00, 11:30, 12:00, 12:30, 13:00, 13:30, 14:00, 14:30, 15:00, 15:30, 16:00, 16:30, 17:00, 17:30, 18:00, 18:30, 19:00, 19:30, 20:00}
@attribute Immobilized_bus INTEGER
@attribute Broken_Truck INTEGER
@attribute Vehicle_excess INTEGER
@attribute Accident_victim INTEGER
@attribute Running_over INTEGER
@attribute Fire_vehicles INTEGER
@attribute Occurrence_involving_freight INTEGER
@attribute Incident_involving_dangerous_freight INTEGER
@attribute Lack_of_electricity INTEGER
@attribute Fire INTEGER
@attribute Point_of_flooding INTEGER
@attribute Manifestations INTEGER
@attribute Defect_in_the_network_of_trolleybuses INTEGER
@attribute Tree_on_the_road INTEGER
@attribute Semaphore_off INTEGER
@attribute Intermittent_Semaphore INTEGER
@attribute Slowness_in_traffic_percent REAL
```

Relevant Papers:

Sassi, R. J., Affonso, C., & Ferreira, R. P. (2011, August). Rough Neuro-Fuzzy Network Applied to Traffic Flow Breakdown in the City of Sao Paulo. In Management and Service Science (MASS), International Conference on (pp. 1-5). IEEE, 2011.

Affonso, C., Sassi, R. J., & Ferreira, R. P. (2011, July). Traffic flow breakdown prediction using feature reduction through rough-neuro fuzzy networks. In Neural Networks (IJCNN), The International Joint Conference Neural Networks (pp. 1943-1947). IEEE, 2011.

Ferreira, R. P., Affonso, C., & Sassi, R. J. (2011, November). Combination of Artificial Intelligence Techniques for Prediction the Behavior of Urban Vehicular Traffic in the City of São Paulo. In 10th Brazilian Congress on Computational Intelligence (CBIC™2011) - Fortaleza, Ceará - Brazil. (pp.1-7), 2011.

Ferreira, R. P., Affonso, C., & Sassi, R. J. (2010, June). Application of a neuro fuzzy network to forecast the behavior of the urban traffic of the city of São Paulo. In Information Systems and Technologies (CISTI), 2010 5th Iberian Conference on (pp. 1-4). IEEE, 2010.

Citation Request:

Ferreira, R. P., Affonso, C., & Sassi, R. J. (2011, November). Combination of Artificial Intelligence Techniques for Prediction the Behavior of Urban Vehicular Traffic in the City of São Paulo. In 10th Brazilian Congress on Computational Intelligence (CBIC) - Fortaleza, Ceará - Brazil. (pp.1-7), 2011.

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