



[Center for Machine Learning and Intelligent Systems](#)

[About](#) [Citation Policy](#) [Donate a Data Set](#) [Contact](#)

☒ Repository ☐ Web

[View ALL Data Sets](#)

Check out the beta version of the new UCI Machine Learning Repository we are currently testing! [X](#)
Contact us if you have any issues, questions, or concerns. [Click here to try out the new site.](#)

Occupancy Detection Data Set

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

Abstract: Experimental data used for binary classification (room occupancy) from Temperature, Humidity, Light and CO2. Ground-truth occupancy was obtained from time stamped pictures that were taken every minute.

Data Set Characteristics:	Multivariate, Time-Series	Number of Instances:	20560	Area:	Computer
Attribute Characteristics:	Real	Number of Attributes:	7	Date Donated	2016-02-29
Associated Tasks:	Classification	Missing Values?	N/A	Number of Web Hits:	190936

Source:

Luis Candanedo, luismiguel.candanedoibarra '@' umons.ac.be, UMONS.

Data Set Information:

Three data sets are submitted, for training and testing. Ground-truth occupancy was obtained from time stamped pictures that were taken every minute.

For the journal publication, the processing R scripts can be found in:

[\[Web Link\]](#)

Attribute Information:

date time year-month-day hour:minute:second

Temperature, in Celsius

Relative Humidity, %

Light, in Lux

CO2, in ppm

Humidity Ratio, Derived quantity from temperature and relative humidity, in kgwater-vapor/kg-air

Occupancy, 0 or 1, 0 for not occupied, 1 for occupied status

Relevant Papers:

Accurate occupancy detection of an office room from light, temperature, humidity and CO2 measurements using statistical learning models. Luis M. Candanedo, VÃ©ronique Feldheim. Energy and Buildings. Volume 112, 15 January 2016, Pages 28-39.

Citation Request:

Please cite the following publication:

Accurate occupancy detection of an office room from light, temperature, humidity and CO2 measurements using statistical learning models. Luis M. Candanedo, VÃ©ronique Feldheim. Energy and Buildings. Volume 112, 15 January 2016, Pages 28-39.

Supported By:



In Collaboration With:



[About](#) || [Citation Policy](#) || [Donation Policy](#) || [Contact](#) || [CML](#)