MiniBooNE particle identification Data Set

Download: Data Folder, Data Set Description

Abstract: This dataset is taken from the MiniBooNE experiment and is used to distinguish electron neutrinos (signal) from muon neutrinos (background).

Data Set Characteristics:	Multivariate	**Number of Instances:**	130065	**Area:**	Physical
Attribute Characteristics:	Real	**Number of Attributes:**	50	**Date Donated**	2010-12-13
Associated Tasks:	Classification	**Missing Values?**	N/A	**Number of Web Hits:**	14845

Source:

Byron Roe (byronroe '@' umich.edu)
Department of Physics University of Michigan
Ann Arbor, MI 48109

Data Set Information:

The submitted file is set up as follows. In the first line is the the number of signal events followed by the number of background events. The signal events come first, followed by the background events. Each line, after the first line has the 50 particle ID variables for one event.

Attribute Information:

50 particle ID variables (real) for each event.

Relevant Papers:

B. Roe et al., 'Boosted Decision Trees, an Alternative to Artificial Neural Networks' <[Web Link]>, arXiv:physics/0408124, Nucl. Instrum. Meth. A543, 577 (2005).

Citation Request:

Please refer to the Machine Learning Repository's citation policy