

Audiology (Standardized) Data Set(听觉学（标准化）数据集)

数据摘要:

Standardized version of the original audiology dat

中文关键词:

机器学习,多变量,分类,UCI,听觉学,

英文关键词:

Machine Learning,Multi Varite,Classification,UCI,Audiology,

数据格式:

TEXT

数据用途:

Classification

数据详细介绍:

Audiology (Standardized) Data Set

Abstract: Standardized version of the original audiology database

Data Set Characteristics:	Multivariate	Number of Instances:	226	Area:	Life
Attribute Characteristics:	Categorical	Number of Attributes:	69	Date Donated	1992-08-18
Associated Tasks:	Classification	Missing Values?	Yes	Number of Web Hits:	11448

Source:

Original Version:

(a) Original Owner: Professor Jergen at Baylor College of Medicine

(b) Donor: Bruce Porter (porter '@' fall.cs.utexas.EDU)

Standardized Version:

(a) Donor: Ross Quinlan

Data Set Information:

This database is a standardized version of the original audiology database (see audiology.* in this directory). The non-standard set of attributes have been converted to a standard set of attributes according to the rules that follow.

* Each property that appears anywhere in the original .data or .test file has been represented as a separate attribute in this file.

* A property such as age_gt_60 is represented as a boolean attribute with values f and t.

* In most cases, a property of the form x(y) is represented as a discrete attribute x() whose possible values are the various y's; air() is an example. There are two exceptions:

** when only one value of y appears anywhere, e.g. static(normal). In this case, x_y appears as a boolean attribute.

** when one case can have two or more values of x, e.g. history(..). All possible values of

history are treated as separate boolean attributes.

* Since boolean attributes only appear as positive conditions, each boolean attribute is assumed to be false unless noted as true. The value of multi-value discrete attributes taken as unknown ("?") unless a value is specified.

* The original case identifications, p1 to p200 in the .data file and t1 to t26 in the .test file, have been added as a unique identifier attribute.

[Note: in the original .data file, p165 has a repeated specification of o_ar_c(normal); p166 has repeated specification of speech(normal) and conflicting values air(moderate) and air(mild). No other problems with the original data were noted.]

Attribute Information:

age_gt_60: f, t.
air(): mild,moderate,severe,normal,profound.
airBoneGap: f, t.
ar_c(): normal,elevated,absent.
ar_u(): normal,absent,elevated.
bone(): mild,moderate,normal,unmeasured.
boneAbnormal: f, t.
bser(): normal,degraded.
history_buzzing: f, t.
history_dizziness: f, t.
history_fluctuating: f, t.
history_fullness: f, t.
history_heredity: f, t.
history_nausea: f, t.
history_noise: f, t.
history_recruitment: f, t.
history_ringing: f, t.
history_roaring: f, t.
history_vomiting: f, t.
late_wave_poor: f, t.
m_at_2k: f, t.
m_cond_lt_1k: f, t.
m_gt_1k: f, t.
m_m_gt_2k: f, t.
m_m_sn: f, t.
m_m_sn_gt_1k: f, t.
m_m_sn_gt_2k: f, t.
m_m_sn_gt_500: f, t.
m_p_sn_gt_2k: f, t.
m_s_gt_500: f, t.
m_s_sn: f, t.
m_s_sn_gt_1k: f, t.
m_s_sn_gt_2k: f, t.
m_s_sn_gt_3k: f, t.
m_s_sn_gt_4k: f, t.
m_sn_2_3k: f, t.
m_sn_gt_1k: f, t.
m_sn_gt_2k: f, t.
m_sn_gt_3k: f, t.

m_sn_gt_4k: f, t.
 m_sn_gt_500: f, t.
 m_sn_gt_6k: f, t.
 m_sn_lt_1k: f, t.
 m_sn_lt_2k: f, t.
 m_sn_lt_3k: f, t.
 middle_wave_poor: f, t.
 mod_gt_4k: f, t.
 mod_mixed: f, t.
 mod_s_mixed: f, t.
 mod_s_sn_gt_500: f, t.
 mod_sn: f, t.
 mod_sn_gt_1k: f, t.
 mod_sn_gt_2k: f, t.
 mod_sn_gt_3k: f, t.
 mod_sn_gt_4k: f, t.
 mod_sn_gt_500: f, t.
 notch_4k: f, t.
 notch_at_4k: f, t.
 o_ar_c(): normal,elevated,absent.
 o_ar_u(): normal,absent,elevated.
 s_sn_gt_1k: f, t.
 s_sn_gt_2k: f, t.
 s_sn_gt_4k: f, t.
 speech(): normal,good,very_good,very_poor,poor,unmeasured.
 static_normal: f, t.
 tympanometry(): a,as,b,ad,c.
 viith_nerve_signs: f, t.
 wave_V_delayed: f, t.
 waveform_ItoV_prolonged: f, t.
 identifier (unique for each instance)

class:
 cochlear_unknown,mixed_cochlear_age_fixation,poss_central
 mixed_cochlear_age_otitis_media,mixed_poss_noise_om,
 cochlear_age,normal_ear,cochlear_poss_noise,cochlear_age_and_noise,
 acoustic_neuroma,mixed_cochlear_unk_ser_om,conductive_discontinuity,
 retrocochlear_unknown,conductive_fixation,bells_palsy,
 cochlear_noise_and_hereditary,mixed_cochlear_unk_fixation,
 otitis_media,possible_menieres,possible_brainstem_disorder,
 cochlear_age_plus_poss_menieres,mixed_cochlear_age_s_om,
 mixed_cochlear_unk_discontinuity,mixed_poss_central_om

Relevant Papers:

Bareiss, E. Ray, & Porter, Bruce (1987). Protos: An Exemplar-Based Learning Apprentice. In
 the Proceedings of the 4th International Workshop on Machine Learning, 12-23, Irvine, CA:
 Morgan Kaufmann. [\[Web Link\]](#)

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