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Cardiotocography Data Set

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Abstract: The dataset consists of measurements of fetal heart rate (FHR) and uterine contraction (UC) features on cardiotocograms classified by expert obstetricians.

Data Set Characteristics:	Multivariate	Number of Instances:	2126	Area:	Life
Attribute Characteristics:	Real	Number of Attributes:	23	Date Donated	2010-09-07
Associated Tasks:	Classification	Missing Values?	N/A	Number of Web Hits:	31649

Source:

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Data Set Information:

2126 fetal cardiotocograms (CTGs) were automatically processed and the respective diagnostic features measured. The CTGs were also classified by three expert obstetricians and a consensus classification label assigned to each of them. Classification was both with respect to a morphologic pattern (A, B, C. ...) and to a fetal state (N, S, P). Therefore the dataset can be used either for 10-class or 3-class experiments.

Attribute Information:

LB - FHR baseline (beats per minute)
 AC - # of accelerations per second
 FM - # of fetal movements per second
 UC - # of uterine contractions per second
 DL - # of light decelerations per second
 DS - # of severe decelerations per second
 DP - # of prolonged decelerations per second
 ASTV - percentage of time with abnormal short term variability
 MSTV - mean value of short term variability
 ALTV - percentage of time with abnormal long term variability
 MLTV - mean value of long term variability
 Width - width of FHR histogram
 Min - minimum of FHR histogram
 Max - Maximum of FHR histogram
 Nmax - # of histogram peaks
 Nzeros - # of histogram zeros
 Mode - histogram mode
 Mean - histogram mean
 Median - histogram median
 Variance - histogram variance
 Tendencv - histogram tendency

CLASS - FHR pattern class code (1 to 10)

NSP - fetal state class code (N=normal; S=suspect; P=pathologic)

Relevant Papers:

Ayres de Campos et al. (2000) SisPorto 2.0 A Program for Automated Analysis of Cardiotocograms. J Matern Fetal Med 5:311-318

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