[**https://archive.ics.uci.edu/ml/datasets/Cardiotocography**](https://archive.ics.uci.edu/ml/datasets/Cardiotocography)

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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:** | 142249 | |

**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 prolongued 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  
Tendency - 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