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Center for Machine Learning and Intelligent Systems

Steel Plates Faults Data Set

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Abstract: A dataset of steel plates' faults, classified into 7 different types. The goal was to train machine learning for automatic pattern recognition.

Data Set Characteristics:	Multivariate	Number of Instances:	1941	Area:	Physical
Attribute Characteristics:	Integer, Real	Number of Attributes:	27	Date Donated	2010-10-26
Associated Tasks:	Classification	Missing Values?	N/A	Number of Web Hits:	76278

Source:

Semeion, Research Center of Sciences of Communication, Via Sersale 117, 00128, Rome, Italy. www.semeion.it

Data Set Information:

Type of dependent variables (7 Types of Steel Plates Faults):

- 1.Pastry
- 2.Z Scratch
- 3.K Scatch
- 4.Stains
- 5.Dirtiness
- 6.Bumps
- 7.Other Faults

Attribute Information:

27 independent variables:

- X Minimum
- X Maximum
- Y Minimum
- Y Maximum
- Pixels Areas
- X Perimeter
- Y Perimeter
- Sum of Luminosity
- Minimum_of_Luminosity
- Maximum of Luminosity
- Length of Conveyer
- TypeOfSteel A300
- TypeOfSteel A400

Steel_Plate_Thickness
Edges_Index
Empty_Index
Square_Index
Outside_X_Index
Edges_X_Index
Edges_Y_Index
Outside_Global_Index
LogOfAreas
Log_X_Index
Cog_Y_Index
Orientation_Index
Luminosity_Index
SigmoidOfAreas

Relevant Papers:

1.M Buscema, S Terzi, W Tastle, A New Meta-Classifier,in NAFIPS 2010, Toronto (CANADA),26-28 July 2010, 978-1-4244-7858-6/10 ©2010 IEEE

2.M Buscema, MetaNet: The Theory of Independent Judges, in Substance Use & Misuse, 33(2), 439-461,1998

Citation Request:

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