

Steel Plates Faults Data Set

Download: Data Folder, Data Set Description

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:	54248

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 Log_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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www.semeion.it



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