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Center for Machine Learning and Intelligent Systems

Steel Plates Faults Data Set

Download: Data Folder, Data Set Description

Abstract: Adataset 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:	19339

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

25-04-13 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, ANew Meta-Classifier,in NAFIPS 2010, Toronto (CANADA),26-28 July 2010, 978-1-4244-7858-6/10 \hat{A} ©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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