







AI4I 2020 Predictive Maintenance Dataset

Donated on 8/29/2020

The AI4I 2020 Predictive Maintenance Dataset is a synthetic dataset that reflects real predictive maintenance data encountered in industry.

Dataset Characteristics Subject Area

Multivariate, Time-Series Computer Science

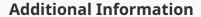
Associated Tasks Feature Type

Classification, Regression, Causal-Discovery Real

Instances # Features

10000 6

Dataset Information



Since real predictive maintenance datasets are generally difficult to obtain and in particular difficult to publish, we present and provide a synthetic dataset that reflects real predictive maintenance encountered in industry to the best of our knowledge....

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Has Missing Values?

No

Introductory Paper



By S. Matzka. 2020

Published in International Conference on Artificial Intelligence for Industries

ariables Table					
Variable Name	Role	Туре	Description	Units	Missing Values
UID	ID	Integer			no
Product ID	ID	Categorical			no
Туре	Feature	Categorical			no
Air temperature	Feature	Continuous		K	no
Process temperature	Feature	Continuous		K	no
Rotational speed	Feature	Integer		rpm	no
Torque	Feature	Continuous		Nm	no
Tool wear	Feature	Integer		min	no
Machine failure	Target	Integer			no
TWF	Target	Integer			no
		Rows per pa	ge 10 •	0 to 10 of	· 14 〈 >

Additional Variable Information

The dataset consists of 10 000 data points stored as rows with 14 features in columns UID: unique identifier ranging from 1 to 10000 product ID: consisting of a letter L, M, or H for low (50% of all products), medium (30%) ... **SHOW MORE**

Dataset Files

File Size ai4i2020.csv 509.8 KB

Reviews

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There are no reviews for this dataset yet.





IMPORT IN PYTHON

CITE

- **""** 1 citations
- **42148** views

DOI

10.24432/C5HS5C

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This allows for the sharing and adaptation of the datasets for any purpose, provided that the appropriate credit is given.



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