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Synthetic Control Chart Time Series Data Set

Download: [Data Folder](#), [Data Set Description](#)

Abstract: This data consists of synthetically generated control charts.

| | | | | | |
|-----------------------------------|----------------------------|------------------------------|-----|----------------------------|------------|
| Data Set Characteristics: | Time-Series | Number of Instances: | 600 | Area: | N/A |
| Attribute Characteristics: | Real | Number of Attributes: | N/A | Date Donated | 1999-06-08 |
| Associated Tasks: | Classification, Clustering | Missing Values? | No | Number of Web Hits: | 27136 |

Source:

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Data Set Information:

This dataset contains 600 examples of control charts synthetically generated by the process in Alcock and Manolopoulos (1999). There are six different classes of control charts:

1. Normal
2. Cyclic
3. Increasing trend
4. Decreasing trend
5. Upward shift
6. Downward shift

The following image shows ten examples from each class: data.jpeg, where (A) Downward Trend. (B) Cyclic. (C) Normal. (D) Upward Shift. (E) Upward Trend. (F) Downward Shift.

Attribute Information:

The data is stored in an ASCII file, 600 rows, 60 columns, with a single chart per line. The classes are organized as follows:

- 1-100 Normal
- 101-200 Cyclic
- 201-300 Increasing trend
- 301-400 Decreasing trend
- 401-500 Upward shift
- 501-600 Downward shift

Relevant Papers:

Alcock R.J. and Manolopoulos Y. Time-Series Similarity Queries Employing a Feature-Based Approach. 7 th Hellenic Conference on Informatics. August 27-29. Ioannina, Greece 1999.

[\[Web Link\]](#)

D.T. Pham and A.B. Chan "Control Chart Pattern Recognition using a New Type of Self Organizing Neural Network" Proc. Instn, Mech, Engrs. Vol 212, No 1, pp 115-127 1998.

Citation Request:

Image courtesy of Eamonn Keogh.



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