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A pattern identification problem in energy time series

Prognoses of energy yield and load profiles are an useful tool for optimization in dimensioning and operation management of renewable energy-storage-systems. Within part of a research project, time series with electric power data of a photovoltaics unit, some machines and overall consumption have been measured with high time resolution at an industrial company.
Caused by breakdowns in measurement and data converting tools, the resulting data contains gaps. Missing data segments in the machine time series shall be filled using production plans of the corresponding machine. For this purpose, a pattern of power consumption over time has to be identified for each type of piece part treated by this machine.
One occuring problem thereby is the choice of suitable measures, because in the machine process flows are some fluctuations from piece to piece.

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