

ABSTRACT

Dataset Obtaining Unit 201 of Abnormality Detecting Device 20 obtains datasets each of which contains values of items for analysis, i.e. items relating to a performance of a device to be analyzed, and values of items for filtering, i.e. items affecting the performance of the device to be analyzed. Values contained in each dataset were measured at a substantially same timing. Dataset Extracting Unit 203 extracts, for each of different time periods and for each of items for filtering, datasets containing values of the item for filtering within a range determined according to a predetermined rule. Filtering Efficiency Calculating Unit 205 calculates, for each of different time periods and for each of items for filtering, a filtering efficiency, which is a ratio of a decrease in an indicator of statistical variation of measured values of the items for analysis in the datasets before and after the extraction to a decrease in a number of datasets before and after the extraction. Abnormality Detecting Unit 206 detects persistent abnormalities in measurements of values contained in datasets based on results of comparisons between the filtering efficiencies calculated by Filtering Efficiency Calculating Unit 205.