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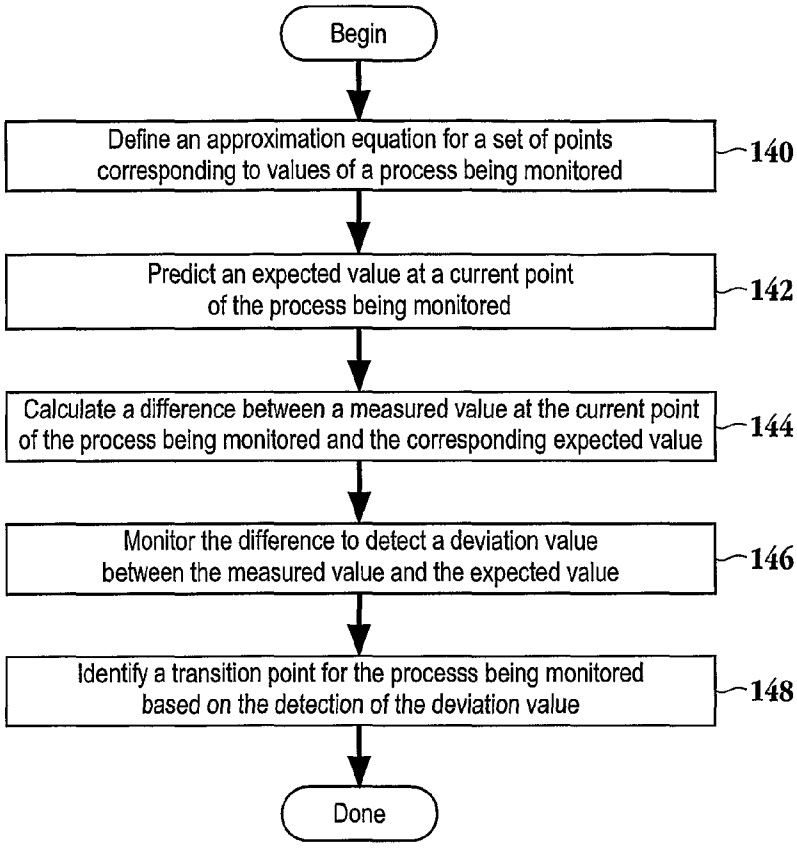
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(54) Title: METHOD AND APPARATUS FOR SLOPE TO THRESHOLD CONVERSION FOR PROCESS STATE MONITORING AND ENDPOINT DETECTION




(57) Abstract: A method for converting a slope based detection task to a threshold based detection task is provided. The method initiates with defining an approximation equation for a set of points corresponding to values of a process being monitored (140). Then, an expected value at a current point of the process being monitored is predicted (142). Next, a difference between a measured value at the current point of the process being monitored and the corresponding expected value is calculated (144). Then, the difference is monitored for successive points to detect a deviation value between the measured value and the expected value (146). Next, a transition point for the process being monitored is identified based on the detection of the deviation value (148). A processing system configured to provide real time data for a slope based transition and a computer readable media are also provided.

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