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# **A Nonparametric Control Chart Based On The Mann Whitney**

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## **A Nonparametric Control Chart Based**

A non parametric  
CUSUM control chart  
based on the  
Mann-Whitney  
statistic. ABSTRACT We  
consider a novel  
univariate non  
parametric cumulative

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sum (CUSUM) control chart for detecting the small shifts in the mean of a process, where the nominal value of the mean is unknown but some historical data are available. This chart is established based on the Mann-Whitney statistic as well as the change-point model, where any assumption for the underlying distribution of the process is not required.

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**[PDF] A non  
parametric CUSUM  
control chart based  
on the ...**

A key advantage of nonparametric charts is that the in-control run length distribution is the same for all continuous process distributions.

Nonparametric charts are more robust and efficient than...

**(PDF) Control**

*Page 7/28*

# Read Free A Nonparametric Control Chart Charts,

## **Nonparametric- ResearchGate**

This chart is established based on the Mann-Whitney statistic as well as the change-point model, where any assumption for the underlying distribution of the process is not required. The performance comparisons based on simulations show that the proposed control chart is slightly more



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effective than some  
other related non-  
parametric control ...

## **A non parametric CUSUM control chart based on the Mann**

...

To this end,  
nonparametric or  
distribution-free control  
charts have been  
proposed in recent  
years. The charts have  
stable in-control  
properties, are robust  
against outliers and

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can be surprisingly efficient in comparison with their parametric counterparts.

## **Nonparametric (distribution-free) control charts: An ...**

Abstract Traditional control charts like Hotelling  $(T^2)$  are based on the assumption of multivariate normality and also inapplicable to high-dimensional data. A notion of data

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depth has been used to measure centrality of a given point in a given data cloud.

## **Nonparametric Control Charts Based on Data Depth for ...**

In this paper, we propose a new nonparametric control chart (called the kLINK chart) based on a k-linkage ranking algorithm that calculates the ranking

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of a new observation relative to the in-control training data.

## **Nonparametric multivariate control charts based on a ...**

For example, Bakir (2006) has constructed a Shewhart-type control chart using a signed-rank statistic, Chakraborti and Eryilmaz (2007) have considered an alternative class of charts based on the

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same statistic, while Albers et al. (2006) have used a suitably modified version of a nonparametric control chart; for an overview of distribution-free control charts for continuous variables, interested readers are referred to Chakraborti et al. (2001).

## **Nonparametric control charts based on runs and**

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Then, three non parametric PROS control charts are proposed including the classic 3-sigma control chart, a non parametric bootstrap approach-based control chart, and a hybrid control chart based ...

**(PDF)**  
**Nonparametric  
Control Charts: An  
Overview and Some**

...

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EWMA control chart  
based on the

Sukhatme statistic is  
denoted by EWMA-S.

## 3.2 CUSUM CONTROL CHART

Similar to [7],  
the one-sided CUSUM  
control chart based on  
non-parametric

statistic  $T$  is defined as:

$$S = \max_{0 \leq t \leq T} \sum_{t=0}^T (t - k) t^{-1} (0, 1),$$

where  $S_0 = 0$ ,  $h > 0$  and

$k > 0$ . Parameter  $k$  is a  
reference value and  $h$   
is a control limit.

Hence,  $W_t$  is

observation based on

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## **Sensitive Non- Parametric Control Charts For Monitoring ...**

In addition, the proposed control chart based on ranks of data is a nonparametric method without assuming normal or Poisson distribution for the data. To investigate the performance of the proposed...



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## **Multivariate nonparametric chart for influenza epidemic ...**

Nonparametric or distribution-free charts can be useful in statistical process control problems when there is limited or lack of knowledge about the underlying process distribution. In this paper, a phase II Shewhart-type chart is considered for location, based on reference

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data from phase I  
analysis and the well-  
known Mann-Whitney  
statistic.

## **Chakraborti, van de Wiel: A nonparametric control chart ...**

A new nonparametric  
EWMA Sign Control  
Chart 1. Introduction.  
Control charts are  
commonly used tools  
to improve the quality  
of a process/service;  
like the  $\bar{X}$ -bar, R,... 2.

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The EWMA Sign Chart.  
Assume that a critical  
quality characteristic,  
 $X$ , has a target value  $T$ .  
Let  $Y = X - T$  and  $p =$   
 $P\{\dots\}$  3. ...

## **A new nonparametric EWMA Sign Control Chart - ScienceDirect**

Based on the  
performed simulations  
and subsequent  
verification of the  
methodology on real

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data, it was found that nonparametric control charts are a suitable alternative to the standard Shewhart control charts in cases where the basic assumptions about the data are not met.

## **Methodology for the Application of Nonparametric Control ...**

Multivariate  
Nonparametric Control  
Chart With Storage

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Space. Abstract:

Currently, it is important to monitor multivariate data in a timely manner. The spatial-rank-based multivariate exponentially weighted moving average control chart (SREWMA) has better relative performance for multivariate data monitoring when the underlying distribution is non-normal.

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**Multivariate  
Nonparametric  
Control Chart With  
Storage ...**

Amin, R.W., and  
Reynolds, M.R., Jr.,  
1996, "Nonparametric  
Quality Control Charts  
Based on the Sign  
Statistic,"

Communications in  
Statistic. Part A: Theory  
and Methods, 24(6),  
1597-1623. 8. Johnson,  
D.E., 1998, Applied  
Multivariate Methods  
for Data

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Control Chart

Analysts, Duxbury  
Press, Pacific Grove.

Based On The  
Mann-Whitney

## **A Non-Parametric Control Chart for Multivariate Processes ...**

Distribution-free  
control chart.

Distribution-free  
(nonparametric)  
control charts are one  
of the most important  
tools of statistical  
process monitoring and  
control.

Implementation

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techniques of  
distribution-free control  
charts do not require  
any knowledge about  
the underlying process  
distribution or its  
parameters.

## **Distribution-free control chart - Wikipedia**

In this paper, we  
develop a  
nonparametric tool  
based on the change-  
point model for  
statistical process



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control. This method is shown to perform well, even beating the parametric approach for small to moderate shifts in normal data, and to involve relatively light computation. KW - Chart performance.

## **A nonparametric change-point control chart —**

**Experts@Minnesota**

A New Multivariate Non-Parametric Control

# Read Free A Nonparametric Control Chart Based on Sign Test.

Abstract Multivariate statistical process control deserves particular attention in the recent scenario. Though, Hotelling T<sup>2</sup> control chart is quite popular and widely used technique in this field but its performance is deteriorated when the underlying distribution of the quality characteristics is not

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following multivariate  
normal distribution.

## Mann Whitney **A New Multivariate Non-Parametric Control Chart Based on ...**

The framework for  
constructing  
nonparametric control  
charts based on order  
statistics calls for the  
following step-by-step  
procedure. Step 1.  
Draw a reference  
sample of size  $m$ ,  
namely,  $X_1, X_2, \dots, X$

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m, from the process  
when it is known to be  
in-control. Step 2.

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