



## Combined Shewhart CUSUM charts using auxiliary variable



Ridwan A. Sanusi<sup>a,c,\*</sup>, Mu'azu Ramat Abujiya<sup>b</sup>, Muhammad Riaz<sup>c</sup>, Nasir Abbas<sup>d</sup>

<sup>a</sup>Department of Mathematics and Statistics, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia

<sup>b</sup>Professorial Year Mathematics Program, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia

<sup>c</sup>Department of Systems Engineering and Engineering Management, City University of Hong Kong, Kowloon, Hong Kong

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### ABSTRACT

A control chart is an important statistical tool for monitoring disturbances in a statistical process, and it is widely applied in the industrial sector, the health sector and the agricultural sector, among others. The Shewhart chart and the Cumulative Sum (CUSUM) chart are traditionally used for detecting large shifts and small shifts, respectively, while the Combined Shewhart-CUSUM (CSC) monitors both small and large shifts. Using auxiliary information, we propose new CSC (MCSC) charts with more efficient estimators (the Regression-type estimator, the Ratio estimator, the Singh and Tailor estimator, the power ratio-type estimator, and the Kadilar and Cingi estimator) for estimating the location parameter. We compare the charts using average run length, standard deviation of the run length and extra quadratic loss, with other existing charts of the same purpose and found out that some of the MCSC charts outperform their existing counterparts. At last, a real-life industrial example is provided.

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### 1. Introduction

The most widely known quality control chart, the Shewhart chart, was proposed by [Shewhart \(1924\)](#). It detects shifts in a production process by signalling when a process goes beyond some particular threshold limits known as control limits. Shewhart chart makes use of the information when the process goes out of the control limits and ignores the information when the process is within the control limits, i.e. in-control. Due to this fact, the chart is sensitive for detecting large shifts (or disturbances) in a process. [Roberts \(1959\)](#) and [Page \(1954\)](#) proposed the Exponentially Weighted Moving Average (EWMA) chart and the Cumulative Sum (CUSUM) chart, respectively, which make use of the information when the process gets out-of-control and even when the process is in-control, hence, these charts are sensitive to small and moderate shifts in a process. Other modifications of these charts have been proposed to increase their efficiency in terms of time, cost, and simplicity of usage and expression.

The plotting statistic of CUSUM chart assumes normality. What if the plotting statistic is not normally distributed or its normality is altered? [Nasir, Riaz, Does, and Abbas \(2013\)](#) answered these questions by suggesting some charts which are not normally distributed or their normality has been altered. They aimed at finding

charts that perform practically well under normal, contaminated normal, non-normal, and special cause contaminated parent cases. Based on mean, median, Hodge-Lehman, midrange and trimmed statistics, they proposed different CUSUM charts for phase II monitoring of the location parameter and computed their performance measure using the average run length (ARL) approach. [Abujiya, Lee, and Riaz \(2015\)](#) suggested the use of well-structured sampling techniques, such as the double ranked set sampling, the median-double ranked set sampling, and the double-median ranked set sampling, to significantly improve the performance of the CUSUM chart, without inflating the false alarm rate. They compared their proposed charts with some existing charts and found out that their charts perform better.

Due to the advancement in technology and industrial processes, emphasis has been made on the implementation of the CUSUM chart to existing Levy-Jennings or Shewhart control charts ([Westgard, Groth, Aronsson, & de Verdier, 1977](#)). These can be done manually using control charts or in computerized quality control systems. [Westgard et al. \(1977\)](#) applied this concept to improve quality control in clinical chemistry. A combination of the Shewhart chart and CUSUM chart was observed by [Lucas \(1982\)](#), after which some scholars improved the chart by proposing more efficient charts. Combined Shewhart-CUSUM (hereafter called "CSC") for location parameter can be optimized over the entire mean shift range by adding an extra parameter ( $w$ ), known as the exponential of the sample mean shift, to the structure of the CSC. This will improve its performance and it will not increase the

\* Corresponding author at: Department of Systems Engineering and Engineering Management, City University of Hong Kong, Kowloon, Hong Kong.  
E-mail address: [rsanusi@cityu.edu.hk](mailto:rsanusi@cityu.edu.hk)

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## **Table of Contents Combined Shewhart Cusum Charts Using Auxiliary Variable**

1. Understanding the eBook Combined Shewhart Cusum Charts Using Auxiliary Variable
  - The Rise of Digital Reading Combined Shewhart Cusum Charts Using Auxiliary Variable
  - Advantages of eBooks Over Traditional Books
2. Identifying Combined Shewhart Cusum Charts Using Auxiliary Variable
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Combined Shewhart Cusum Charts Using Auxiliary Variable
  - User-Friendly Interface
4. Exploring eBook Recommendations from Combined Shewhart Cusum Charts Using Auxiliary Variable
  - Personalized Recommendations
  - Combined Shewhart Cusum Charts Using Auxiliary Variable User Reviews and Ratings
  - Combined Shewhart Cusum Charts Using Auxiliary Variable and Bestseller Lists

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5. Accessing Combined Shewhart Cusum Charts Using Auxiliary Variable Free and Paid eBooks
  - Combined Shewhart Cusum Charts Using Auxiliary Variable Public Domain eBooks
  - Combined Shewhart Cusum Charts Using Auxiliary Variable eBook Subscription Services
  - Combined Shewhart Cusum Charts Using Auxiliary Variable Budget-Friendly Options
6. Navigating Combined Shewhart Cusum Charts Using Auxiliary Variable eBook Formats
  - ePub, PDF, MOBI, and More
  - Combined Shewhart Cusum Charts Using Auxiliary Variable Compatibility with Devices
  - Combined Shewhart Cusum Charts Using Auxiliary Variable Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Combined Shewhart Cusum Charts Using Auxiliary Variable
  - Highlighting and Note-Taking Combined Shewhart Cusum Charts Using Auxiliary Variable
  - Interactive Elements Combined Shewhart Cusum Charts Using Auxiliary Variable
8. Staying Engaged with Combined Shewhart Cusum Charts Using Auxiliary Variable
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Combined Shewhart Cusum Charts Using Auxiliary Variable
9. Balancing eBooks and Physical Books Combined Shewhart Cusum Charts Using Auxiliary Variable
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Combined Shewhart Cusum Charts Using Auxiliary Variable
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Combined Shewhart Cusum Charts Using Auxiliary Variable
  - Setting Reading Goals Combined Shewhart Cusum Charts Using Auxiliary Variable
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Combined Shewhart Cusum Charts Using Auxiliary Variable
  - Fact-Checking eBook Content of Combined Shewhart Cusum Charts Using Auxiliary Variable
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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