

# An uncertain programming model for preventive maintenance scheduling

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111

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## Abstract

**Purpose** – The purpose of this paper is to illustrate an uncertain programming model for scheduling of preventive maintenance (PM) actions. The PM scheduling, in which PM actions are performed under fixed intervals, is solved by grey systems theory.

**Design/methodology/approach** – The paper applied the grey evaluation method based on triangular whitening weight functions which includes two classes: endpoint evaluation method and center-point evaluation method.

**Findings** – Two methods give the same results based on endpoint and center-point triangular whitening weight functions. For validation, the results were compared by Cassady's method.

**Originality/value** – The scheduling of PM is crucial in reliability and maintenance engineering. Hundreds of parts compose complex machines that require replacement and/or repairing. It is helpful to reduce the outage loss on frequent repair/replacement parts and avoid lack of maintenance of the equipment by controlling the equipment maintenance frequency.

**Keywords** Uncertainty, Failure, Grey systems theory, Preventive maintenance scheduling

**Paper type** Research paper

## Nomenclature

$\beta$	Weibull shape parameter for probability distribution of $T$	$N(r)$	number of machine failures in $r$ time units of machine operation
$\eta$	Weibull scale parameter for probability distribution of $T$	$x(t)$	hazard function of $T$
$r$	PM interval for the machine	$t_r$	time required to repair the machine
$A(r)$	steady-state machine availability	$t_p$	time required to perform PM on the machine
$w(r) = E\{N(r)\}$			

## 1. Introduction

Timely and cost-effective production is becoming increasingly important in today's global competitive markets. For the manufacturers, it is vital to optimize the machine resource utilization by ensuring an efficient and stabilized schedule at the operational level. Traditional literatures on scheduling assume that machines are available at all times. However, in many realistic situations, machines may be unavailable during the scheduling horizon for different reasons, such as breakdowns and scheduled maintenances in typical industrial settings. This availability consideration adds complexity to any scheduling problem, even in a single machine environment (Lu *et al.*, 2015).

In a long-term scheduling, production system is always subject to deterioration with usage, which will affect the availability of machines and the stability of the system.



# Uncertain Programming

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## **Table of Contents Uncertain Programming**

1. Understanding the eBook Uncertain Programming
  - The Rise of Digital Reading Uncertain Programming
  - Advantages of eBooks Over Traditional Books
2. Identifying Uncertain Programming
  - 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 Uncertain Programming
  - User-Friendly Interface
4. Exploring eBook Recommendations from Uncertain Programming
  - Personalized Recommendations
  - Uncertain Programming User Reviews and Ratings
  - Uncertain Programming and Bestseller Lists

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