

Uncertainty, Computational Techniques, and Decision Intelligence

Tofiq Allahwiranloo, Narsis A. Kiani, Witold Pedrycz - Series Editors

Artificial Intelligence Methods for Optimization of the Software Testing Process

Sahar Tahvili and Leo Hatvani

Artificial Intelligence Methods for Optimization of the Software Testing Process: With Practical Examples and Exercises presents different artificial intelligence (AI)-based solutions for overcoming the uncertainty found in many initial testing problems. The concept of intelligent decision making is presented as a multi-criterion, multi-objective undertaking. The book provides guidelines on how to manage diverse types of uncertainty with intelligent decision making that can help subject matter experts in industries improve software testing processes. Moreover, this book provides practical Python exercises and industrial case studies that can be used by students and researchers for improving AI and machine learning skills.

Key Features

- Presents one of the first empirical studies in the field, contrasting theoretical assumptions on innovations in a real industrial environment with a large set of use cases from different testing processes at several large industries in Sweden
- Explores specific comparative methodologies, focusing on developed and developing AI-based solutions
- Serves as a guideline for conducting industrial research in the AI and software testing domains
- Explains all proposed solutions through real industrial case studies

About the Authors

Sahar Tahvili, PhD, is an Operations Team Leader in the Product Development Unit, Cloud RAN, Integration, and Test at Ericsson AB, and also a Researcher at Mälardalen University, Sweden. Tahvili holds a PhD in Software Engineering; her doctoral thesis entitled "Multi-Criteria Optimization of System Integration Testing" was named one of the best new Software Integration Testing books by BookAuthority. She earned her BS and MS degrees in Applied Mathematics with an emphasis on optimization. Tahvili's research focuses on AI, advanced methods for testing complex software-intensive systems, and designing decision support systems (DSS). Previously she worked as a senior researcher at the Research Institutes of Sweden and as a senior data scientist at Ericsson AB.

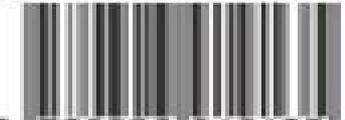
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Artificial Intelligence Methods In Software Testing

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Table of Contents Artificial Intelligence Methods In Software Testing

1. Understanding the eBook Artificial Intelligence Methods In Software Testing
 - The Rise of Digital Reading Artificial Intelligence Methods In Software Testing
 - Advantages of eBooks Over Traditional Books
2. Identifying Artificial Intelligence Methods In Software Testing
 - 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 Artificial Intelligence Methods In Software Testing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Artificial Intelligence Methods In Software Testing
 - Personalized Recommendations
 - Artificial Intelligence Methods In Software Testing User Reviews and Ratings
 - Artificial Intelligence Methods In Software Testing and Bestseller Lists
5. Accessing Artificial Intelligence Methods In Software Testing Free and Paid eBooks
 - Artificial Intelligence Methods In Software Testing Public Domain eBooks
 - Artificial Intelligence Methods In Software Testing eBook Subscription Services
 - Artificial Intelligence Methods In Software Testing Budget-Friendly Options

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