

## 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.

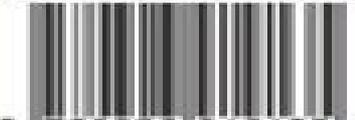
**Leo Hatvani** is a Lecturer at Mälardalen University, Sweden. Leo holds a Licentiate degree in the verification of embedded systems from Mälardalen University. His current research focuses on AI and advanced methods for testing complex software-intensive systems. His teaching is focused on improving Industry 4.0 production processes and product development by integrating AI and augmented and virtual reality. He is working closely with Mälardalen Industrial Technology Centre (MITC), which cooperates with a number of regional companies to introduce Industry 4.0 practices into Swedish industry.



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# Artificial Intelligence Methods In Software Testing

**Joacim Rocklöv**



## **Artificial Intelligence Methods In Software Testing:**

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**Software Testing Concepts and Practices** K. Mustafa,R. A. Khan,2007 Focusing on software testing in practice this book has been planned to suit the needs of both the practitioner and the academician Concepts of software testing have been modeled as a phase embedded activity rather than treating them as separate and post development activity Each chapter starts with a set of objectives with the prospective of targeting to achieve rather than leaving the student directionless and ends with a list of key terms referring to certain abstract concepts for better and crisp communication alongwith a list of references to enable the user to find in depth information [General Catalog -- University of California, Santa Cruz](#) University of California, Santa Cruz,2008 **Tutorial, Software Testing & Validation Techniques** Edward Miller,1978 Earlier ed published 1977 with title Program testing techniques **Proceedings** ,1983 *Evaluating Decision Support and Expert Systems* Leonard Adelman,1992 Decision Support Systems Engineering Andrew P Sage This practical guide describes the everyday nuts and bolts to building a decision support system that unites the concerns of both system designers and users Beginning with an outline of the generic components of a decision support system readers are given a technologically

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## Unveiling the Energy of Verbal Beauty: An Emotional Sojourn through **Artificial Intelligence Methods In Software Testing**

In a global inundated with screens and the cacophony of instant communication, the profound power and emotional resonance of verbal artistry usually disappear in to obscurity, eclipsed by the regular barrage of noise and distractions. Yet, nestled within the musical pages of **Artificial Intelligence Methods In Software Testing**, a charming perform of fictional splendor that impulses with raw thoughts, lies an remarkable journey waiting to be embarked upon. Penned by a virtuoso wordsmith, this enchanting opus manuals readers on a mental odyssey, gently exposing the latent possible and profound affect stuck within the intricate web of language. Within the heart-wrenching expanse of this evocative evaluation, we shall embark upon an introspective exploration of the book is key themes, dissect its captivating publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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