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Uncertainty, Computational Techniques, and Decision Intelligence

Tofigh Allahviranloo, 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 Ericcson 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

Marcel A. Müller

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