

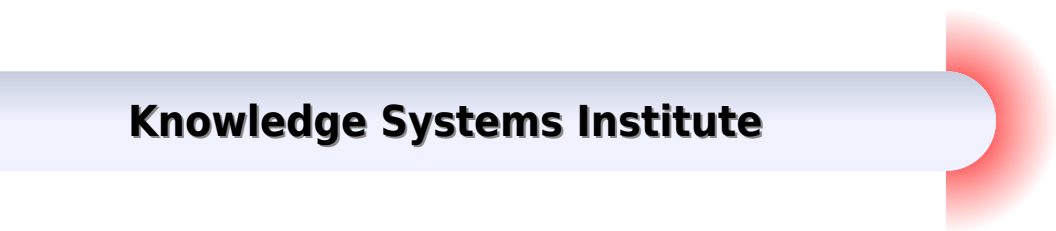
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Artificial Intelligence Methods for Optimization of the Software Testing Process Sahar Tahvili, Leo Hatvani, 2022-07-21 Artificial Intelligence Methods for Optimization of the Software Testing Process With Practical Examples and Exercises presents different AI based solutions for overcoming the uncertainty found in many initial testing problems The concept of intelligent decision making is presented as a multi criteria 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 many industries improve various processes in a more efficient way As the number of required test cases for testing a product can be large in industry more than 10 000 test cases are usually created Executing all these test cases without any particular order can impact the results of the test execution hence this book fills the need for a comprehensive resource on the topics

on the how s what s and whys To learn more about Elsevier s Series Uncertainty Computational Techniques and Decision Intelligence please visit this link <https://www.elsevier.com/books-and-journals/book-series/uncertainty-computational-techniques-and-decision-intelligence> 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 developed and developing testing processes at various large industries Explores specific comparative methodologies focusing on developed and developing AI based solutions Serves as a guideline for conducting industrial research in the artificial intelligence and software testing domain Explains all proposed solutions through real industrial case studies

Intelligent Assurance: Artificial Intelligence-Powered Software Testing in the Modern Development Lifecycle Partha Sarathi Mohapatra, 2025-07-27 Traditional testing can t match the speed and reliability demanded in modern software development and releases This book explains the integration of Artificial Intelligence is transforming software testing enabling smarter faster and more scalable quality assurance across the development lifecycle This book demystifies the integration of AI machine learning and natural language processing into modern testing workflows From automated test case generation and defect prediction to adaptive test maintenance and intelligent prioritization it offers practical insights and real world applications that empower QA teams to deliver higher quality software with greater efficiency Through a structured hands on approach readers will explore AI driven testing strategies tools and architectures that align with DevOps and agile practices The book also delves into ethical considerations challenges in AI adoption and the future of autonomous testing agents Whether you re a software tester QA lead DevOps engineer or technology decision maker this book equips you with the knowledge to embrace AI driven testing as a strategic advantage in delivering resilient secure and high performance software

Generative AI and Large Language Models: Opportunities, Challenges, and Applications Anis Koubaa, Adel Ammar, Lahouari Ghouti, Wadii Boulila, Bilel Benjdira, 2025-08-21 This book provides a comprehensive exploration of the transformative impact of AI technologies across diverse fields From revolutionizing healthcare diagnostics and advancing natural language processing for low resource languages to enhancing software development and promoting environmental sustainability this book explores the cutting edge advancements and practical applications of generative AI and large language models LLMs With a focus on both opportunities and challenges the book examines the architectural challenges of transformer based models the ethical implications of AI and the importance of language specific adaptations particularly for low resource languages like Arabic It also highlights the role of AI in code development multimodal applications and its integration with intellectual property frameworks This book is an essential resource for researchers practitioners and policymakers seeking to understand and harness the potential of AI to drive innovation and global progress

Data Democracy Feras A. Batarseh, Ruixin Yang, 2020-01-21 Data Democracy At the Nexus of Artificial Intelligence Software Development and Knowledge Engineering provides a manifesto to data democracy After reading the chapters of this book you are informed and suitably warned You

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Machine Learning, ECML- ..., 2004

Optimization of Automated Software Testing Using Meta-Heuristic Techniques Manju Khari, Deepti Bala Mishra, Biswaranjan Acharya, Ruben Gonzalez Crespo, 2022-09-26 This book provides awareness of different evolutionary methods used for automatic generation and optimization of test data in the field of software testing While the book highlights on the foundations of software testing techniques it also focuses on contemporary topics for research and development This book covers the automated process of testing in different levels like unit level integration level performance level evaluation of testing strategies testing in security level optimizing test cases using various algorithms and controlling and monitoring the testing process etc This book aids young researchers in the field of optimization of automated software testing provides academics with knowledge on the emerging field of AI in software development and supports universities research centers and industries in new projects using AI in software testing Supports the advancement in the artificial intelligence used in software development Advances knowledge on artificial intelligence based metaheuristic approach in software testing Encourages innovation in traditional software testing field using recent artificial intelligence

Proceedings of the Sixth International Conference on Software Engineering and Knowledge Engineering Knowledge Systems Institute, 1994-06

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