

Artificial Intelligence for Testing



AI

Artificial Intelligence In Software Testing

Partha Sarathi Mohapatra



Artificial Intelligence In Software Testing:

Artificial Intelligence and Software Testing Adam Leon Smith, Rex Black, James Davenport, Joanna Olszewska, Jeremias Rössler, Jonathon Wright, 2022-01-24 AI presents a new paradigm in the development of software representing the biggest change to how we think about quality and testing in decades Many well known issues around AI manifest as quality management problems This book explores AI from that angle and is aimed at testing and quality management practitioners who want to understand more

AI-Driven Software Testing Srinivasa Rao Bittla, 2025-10-21 AI Driven Software Testing explores how Artificial Intelligence AI and Machine Learning ML are revolutionizing quality engineering QE making testing more intelligent efficient and adaptive The book begins by examining the critical role of QE in modern software development and the paradigm shift introduced by AI ML It traces the evolution of software testing from manual approaches to AI powered automation highlighting key innovations that enhance accuracy speed and scalability Readers will gain a deep understanding of quality engineering in the age of AI comparing traditional and AI driven testing methodologies to uncover their advantages and challenges Moving into practical applications the book delves into AI enhanced test planning execution and defect management It explores AI driven test case development intelligent test environments and real time monitoring techniques that streamline the testing lifecycle Additionally it covers AI s impact on continuous integration and delivery CI CD predictive analytics for failure prevention and strategies for scaling AI driven testing across cloud platforms Finally it looks ahead to the future of AI in software testing discussing emerging trends ethical considerations and the evolving role of QE professionals in an AI first world With real world case studies and actionable insights AI Driven Software Testing is an essential guide for QE engineers developers and tech leaders looking to harness AI for smarter faster and more reliable software testing

What you will learn What are the key principles of AI ML driven quality engineering What is intelligent test case generation and adaptive test automation Explore predictive analytics for defect prevention and risk assessment Understand integration of AI ML tools in CI CD pipelines Who this book is for Quality Engineers looking to enhance software testing with AI driven techniques Data Scientists exploring AI applications in software quality assurance and engineering Software Developers Engineers seeking to integrate AI ML into testing and automation workflows

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

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

Artificial Intelligence Methods In Software Testing Mark Last,Abraham Kandel,Horst Bunke,2004-06-03 An inadequate infrastructure for software testing is causing major losses to the world economy The characteristics of software quality problems are quite similar to other tasks successfully tackled by artificial intelligence techniques The aims of this book are to present state of the art applications of artificial intelligence and data mining methods to quality assurance of complex software systems and to encourage further research in this important and challenging area

Generative AI for Software Development Seifedine Kadry,Balasubramaniam S,2025-06-30 As the field of Artificial Intelligence continues to evolve Generative AI has emerged as a powerful tool in the realm of software development AI models capable of generating high quality human like code can significantly accelerate the software development process assist in troubleshooting and even automate tasks traditionally performed by human developers Generative AI models such as OpenAI DeepMind and others are already demonstrating the ability to write functional code generate documentation and assist in code review These models are not only reducing the time it takes to develop applications but are also making software development more accessible to a broader audience

including non technical users This book is intended to serve as a comprehensive guide for developers technology leaders and anyone interested in understanding how to leverage Generative AI in software development It will cover the underlying technology behind these models practical use cases integration into development workflows and ethical considerations Additionally it explores how the democratization of coding through AI will shape the future of software engineering By providing insights into real world applications and best practices for integrating generative AI into the software lifecycle this book empowers readers to stay ahead of the technological curve in a rapidly evolving industry

Artificial Intelligence Methods in Software Testing Horst Bunke, Mark Last, Abraham Kandel, 2004 An inadequate infrastructure for software testing is causing major losses to the world economy The characteristics of software quality problems are quite similar to other tasks successfully tackled by artificial intelligence techniques The aims of this book are to present state of the art applications of artificial intelligence and data mining methods to quality assurance of complex software systems and to encourage further research in this important and challenging area Contents Fuzzy Cause-Effect Models of Software Testing W Pedrycz Black Box Testing with Info Fuzzy Networks M Last Automated GUI Regression Testing Using AI Planning A M Memon Test Set Generation and Reduction with Artificial Neural Networks P Saraph et al Three Group Software Quality Classification Modeling Using an Automated Reasoning Approach T M Khoshgoftaar Data Mining with Resampling in Software Metrics Databases S Dick A Kandel Readership Students researchers and professionals in computer science information systems software testing and data mining

Software Testing with Generative AI Mark Winteringham, 2024-12-31 Speed up your testing and deliver exceptional product quality with the power of AI tools The more you test the more you learn about your software Software Testing with Generative AI shows you how you can expand automate and enhance your testing with Large Language Model LLM based AI Your team will soon be delivering higher quality tests all in less time In Software Testing with Generative AI you will learn how to Spot opportunities to improve test quality with AI Construct test automation with the support of AI tools Formulate new ideas during exploratory testing using AI tools Use AI tools to aid the design process of new features Improve the testability of a context with the help of AI tools Maximize your output with prompt engineering Create custom LLMs for your business specific needs Software Testing with Generative AI is full of hype free advice for supporting your software testing with AI In it you will find strategies from bestselling author Mark Winteringham to generate synthetic testing data implement automation and even augment and improve your test design with AI Foreword by Nicola Martin About the technology There is a simple rule in software testing the more you test the more you learn And as any testing pro will tell you good testing takes time By integrating large language models LLMs and generative AI into your process you can dramatically automate and enhance testing improve quality and coverage and deliver more meaningful results About the book Software Testing with Generative AI shows you how AI can elevate every aspect of testing automation test data management test scripting exploratory testing and more Learn how to use AI coding tools like Copilot to guide test

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Proceedings of the 3rd International Conference on Big Data and Artificial Intelligence Applications (ICBDAIA'24) Said Tkatek,Jaime Lloret,Youssef Fakhri,Adil El Makrani,2026-02-16 This book presents innovative approaches in artificial intelligence security and networking emphasizing their convergence with big data and practical applications Contributions from leading researchers and practitioners showcase novel methodologies case studies and solutions that address key technological challenges while fostering intelligent secure and connected systems The proceedings are organized into four sections AI applications security in digital systems advances in networking and industrial case studies offering a coherent and multidisciplinary perspective With a rigorous peer review process the collection delivers high quality content that balances academic depth with real world relevance Designed for researchers graduate students and industry professionals it serves as a valuable reference to inspire innovation support practical implementation and guide the development of next generation secure infrastructures

Advances in Materials Science and Engineering Domenico Lombardo,Ke Wang,2021-12-15 This volume contains the selected papers resulting from the 7th Annual International Workshop on Materials Science and Engineering and is focusing on the following six aspects 1 Various Materials Properties Processing and Manufactures 2 Multifunctional Materials Properties Processing and Manufactures 3 Nanomaterials and Biomaterials 4 Civil Materials and Sustainable Environment 5 Electrochemical Valuation Fracture Resistance and Assessment 6 Designs Related to Materials Science and Engineering This proceeding presents and discusses key concepts and analyzes the state of the art of the field IWMSE 2021 is an academic conference in a series held once per year The conference not only provides insights on materials science and engineering but also affords conduit for future research in these fields It provides opportunities for the delegates to exchange new ideas and application experiences to establish business or research relations and to find global partners for future collaboration

AI-Infused Test Automation: Revolutionizing Software Testing through Artificial Intelligence Anup

Sahoo,2023-11-27 AI Infused Test Automation Revolutionizing Software Testing through Artificial Intelligence is an enlightening book that explores the transformative power of AI in software testing It covers a wide range of AI driven techniques tools and practices providing readers with a comprehensive understanding of how AI has revolutionized the field The book inspires readers to embrace AI and leverage its capabilities to enhance test case generation bug detection performance testing and test management With AI readers can achieve higher productivity improved software quality and enhanced customer satisfaction This book catalyzes readers to embark on their AI infused testing journey driving innovation and shaping the future of software testing

Software Testing Automation with AI Tools Dr. K. M. Padmapriya,Dr. M. M. Kavitha,2025-11-25 Dr K M Padmapriya Assistant Professor Department of Computer Science Hindusthan College of Science and Commerce Erode Tamil Nadu India Dr M M Kavitha Assistant Professor Department of Computer Applications Kongu Arts and Science College Erode Tamil Nadu India

Autonomous Real-Time Testing Thomas Michael Fehlmann,2020-01-17 Software testing is becoming increasingly important because more and more products are software intensive Cars for example contain more and more control software ECUs that are networked with each other With new rail vehicles software problems delay commissioning by months even years because the different components are not coordinated with each other A timely system test would help but there is a lack of time and resources The functionality of the software is simply too great So you must automate Automation is not only necessary for the execution of tests but above all for the generation of suitable test cases This is possible with Combinatory Logic the Analytic Hierarchy Process AHP and Quality Function Deployment QFD When today s cars use map services from the cloud or their own sensors for an Advanced Driving Assistance System ADAS to perform driving decisions or when in the future an autonomous car meets another or with truck platooning or when adding a new previously unknown device to an IoT orchestra the original base system expands its functionality Therefore such an expanding system needs being retested before it can do decisions with the potential of affecting harm to humans or things after each update after each learning This is Continuous Testing during operation it supplements Continuous Delivery and Continuous Integration Disruptive innovations in automotive require an equally disruptive new approach to testing of software intense systems This requires moving from once upon a time testing before release to autonomous real time software systems testing during operations with indications to users and suppliers about the actual state and testing results This book explains the theory and the implementation approach for a framework for Autonomous Real time Testing ART of a software intense system while in operation

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

Automated Software Testing with AI Tools Dr. Ruby Bhatt,2025-11-20 Dr Ruby Bhatt Assistant Professor Department of Computer Science Medicaps University Indore Madhya Pradesh India *Fifth Conference on Artificial Intelligence for Space Applications* ,1990 **Artificial Intelligence Methods For Software Engineering** Meir Kalech,Rui Abreu,Mark Last,2021-06-15 Software is an integral part of our lives today Modern software systems are highly complex and often pose new challenges in different aspects of Software Engineering SE Artificial Intelligence AI is a growing field in computer science that has been proven effective in applying and developing AI techniques to address various SE challenges This unique compendium covers applications of state of the art AI techniques to the key areas of SE design development debugging testing etc All the materials presented are up to date This reference text will benefit researchers academics professionals and postgraduate students in AI machine learning and software engineering Related Link s [Conference on Artificial Intelligence for Space Applications](#) ,1988 **Third Conference on Artificial Intelligence for Space Applications, Part 1** ,1987 **Third Conference on Artificial Intelligence for Space Applications** ,1987

Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Artificial Intelligence In Software Testing**

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