

AN ARTIFICIAL INTELLIGENCE APPROACH TO TEST GENERATION

By
Narindran Nigam
Stanford University



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Artificial Intelligence Approach To Test Generation

Ensheng Dong



Artificial Intelligence Approach To Test Generation:

An Artificial Intelligence Approach to Test Generation Narinder Singh, 2012-12-06 I am indebted to my thesis advisor Michael Genesereth for his guidance inspiration and support which has made this research possible As a teacher and a sounding board for new ideas Mike was extremely helpful in pointing out Haws and suggesting new directions to explore I would also like to thank Harold Brown for introducing me to the application of artificial intelligence to reasoning about designs and his many valuable comments as a reader of this thesis Significant contributions by the other members of my reading committee Mark Horowitz and Allen Peterson have greatly improved the content and organization of this thesis by forcing me to communicate my ideas more clearly I am extremely grateful to the other members of the Logic Group at the Heuristic Programming Project for being a sounding board for my ideas and providing useful comments In particular I would like to thank Matt Ginsberg Vineet Singh Devika Subramanian Richard Trietel Dave Smith Jock Mackinlay and Glenn Kramer for their pointed criticisms This research was supported by Schlumberger Palo Alto Research previously Fairchild Laboratory for Artificial Intelligence I am grateful to Peter Hart the former head of the AI lab and his successor Marty Tenenbaum for providing an excellent environment for performing this research

Introduction to Advanced System-on-Chip Test Design and Optimization Erik Larsson, 2006-03-30 SOC test design and its optimization is the topic of Introduction to Advanced System on Chip Test Design and Optimization It gives an introduction to testing describes the problems related to SOC testing discusses the modeling granularity and the implementation into EDA electronic design automation tools The book is divided into three sections i test concepts ii SOC design for test and iii SOC test applications The first part covers an introduction into test problems including faults fault types design flow design for test techniques such as scan testing and Boundary Scan The second part of the book discusses SOC related problems such as system modeling test conflicts power consumption test access mechanism design test scheduling and defect oriented scheduling Finally the third part focuses on SOC applications such as integrated test scheduling and TAM design defect oriented scheduling and integrating test design with the core selection process

Neural Models and Algorithms for Digital Testing S.T. Chadradhar, Vishwani Agrawal, M. Bushnell, 2012-12-06 References 82 9 QUADRATIC 0 1 PROGRAMMING 8S 9 1 Energy Minimization 86 9 2 Notation and Tenninology 87 9 3 Minimization Technique 88 9 4 An Example 92 9 5 Accelerated Energy Minimization 94 9 5 1 Transitive Oosure 94 9 5 2 Additional Pairwise Relationships 96 9 5 3 Path Sensitization 97 9 6 Experimental Results 98 9 7 Summary 100 References 100 10 TRANSITIVE CLOSURE AND TESTING 103 10 1 Background 104 10 2 Transitive Oosure Definition 105 10 3 Implication Graphs 106 10 4 A Test Generation Algorithm 107 10 5 Identifying Necessary Assignments 112 10 5 1 Implicit Implication and Justification 113 10 5 2 Transitive Oosure Does More Than Implication and Justification 115 10 5 3 Implicit Sensitization of Dominators 116 10 5 4 Redundancy Identification 117 10 6 Summary 119 References 119 11

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Essentials of Electronic Testing for Digital, Memory and Mixed-Signal VLSI Circuits M. Bushnell, Vishwani Agrawal, 2004-12-15 The modern electronic testing has a forty year
 history Test professionals hold some fairly large conferences and numerous workshops have a journal and there are over one
 hundred books on testing Still a full course on testing is offered only at a few universities mostly by professors who have a
 research interest in this area Apparently most professors would not have taken a course on electronic testing when they were
 students Other than the computer engineering curriculum being too crowded the major reason cited for the absence of a
 course on electronic testing is the lack of a suitable textbook For VLSI the foundation was provided by semiconductor device
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 other groups of readers

An Artificial Intelligence Approach to Test Generation Narinder Singh, 1987-02-01 *Artificial Intelligence Applications for Improved Software Engineering Development: New Prospects* Meziane, Farid, Vadera, Sunil, 2009-07-31 This book provides an overview of useful techniques in artificial intelligence for future software development along with critical assessment for further advancement Provided by publisher

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

Industrial And Engineering Applications Of Artificial Intelligence And Expert Systems Moonis Ali, M. Ali, 1988-08
Handbook on Artificial Intelligence-Empowered Applied Software Engineering Maria Virvou, George A.

Tsihrintzis, Nikolaos G. Bourbakis, Lakhmi C. Jain, 2022-09-03 This book provides a structured overview of artificial intelligence empowered applied software engineering. Evolving technological advancements in big data, smartphone and mobile software applications, the Internet of Things and a vast range of application areas in all sorts of human activities and professions lead current research towards the efficient incorporation of artificial intelligence enhancements into software and the empowerment of software with artificial intelligence. This book at hand devoted to Novel Methodologies to Engineering Smart Software Systems. Novel Methodologies to Engineering Smart Software Systems constitutes the first volume of a two volume Handbook on Artificial Intelligence empowered Applied Software Engineering. Topics include very significant advances in i Artificial Intelligence Assisted Software Development and ii Software Engineering Tools to develop Artificial Intelligence Applications as well as a detailed Survey of Recent Relevant Literature. Professors, researchers, scientists, engineers and students in artificial intelligence, software engineering and computer science related disciplines are expected to benefit from it along with interested readers from other disciplines. **Artificial Intelligence in HCI** Helmut Degen, Stavroula Ntoa, 2024-05-31 The three volume book set LNAI 14734, 14735 and 14736 constitutes the refereed proceedings of 5th International Conference on Artificial Intelligence in HCI (AI HCI 2024) held as part of the 26th International Conference HCI International 2024 which took place in Washington DC USA during June 29-July 4, 2024. The total of 1271 papers and 309 posters included in the HCII 2024 proceedings was carefully reviewed and selected from 5108 submissions. The AI HCI 2024 proceedings were organized in the following topical sections: Part I Human centered artificial intelligence, explainability and transparency, AI systems and frameworks in HCI; Part II Ethical considerations and trust in AI, enhancing user experience through AI driven technologies, AI in industry and operations; Part III Large language models for enhanced interaction, advancing human robot interaction through AI, AI applications for social impact and human wellbeing.

, Ethics in Artificial Intelligence: Bias, Fairness and Beyond Animesh Mukherjee, Juhi Kulshrestha, Abhijnan Chakraborty, Srijan Kumar, 2023-12-29 This book is a collection of chapters in the newly developing area of ethics in artificial intelligence. The book comprises chapters written by leading experts in this area which makes it a one of its kind collection. Some key features of the book are its unique combination of chapters on both theoretical and practical aspects of integrating ethics into artificial intelligence. The book touches upon all the important concepts in this area including bias, discrimination, fairness and interpretability. Integral components can be broadly divided into two segments: the first segment includes empirical identification of biases, discrimination and the ethical concerns thereof in impact assessment, advertising and personalization, computational social science and information retrieval. The second segment includes operationalizing the notions of fairness, identifying the importance of fairness in allocation, clustering and time series problems and applications of fairness in software testing, debugging and in multi stakeholder platforms. This segment ends with a chapter on interpretability of machine learning models which is another very important and emerging topic in this area. *Artificial*

Intelligence for Cloud-Native Software Engineering Chelliah, Pethuru Raj,Venkatesh, Ramamurthy,Natraj, N.A.,Jeyaraj, Rathinaraja,2025-05-07 Artificial intelligence is transforming software engineering by automating development testing deployment and security processes leading to more efficient and high quality software solutions AI powered tools enhance scalability reliability and real time analytics enabling businesses to optimize operations and improve decision making As cloud native architectures gain traction AI driven innovations are reshaping the way software is designed maintained and evolved driving a new era of intelligent and adaptive technology solutions Artificial Intelligence for Cloud Native Software Engineering explores the transformative impact of AI on the software engineering lifecycle highlighting its role in automating and enhancing various stages of software development It provides a comprehensive overview of how AI technologies can assist software architects and engineers in creating high quality enterprise grade software efficiently Covering topics such as source code creation data security and multiparameter optimization this book is an excellent resource for software engineers computer scientists professionals researchers scholars academicians and more **Advances in Computers** ,1999-09-14 Since its first volume in 1960 *Advances in Computers* has presented detailed coverage of innovations in hardware and software and in computer theory design and applications It has also provided contributors with a medium in which they can examine their subjects in greater depth and breadth than that allowed by standard journal articles As a result many articles have become standard references that continue to be of significant lasting value despite the rapid growth taking place in the field Cybersecurity and Human Capabilities Through Symbiotic Artificial Intelligence Hamid Jahankhani,Biju Issac,2025-06-14 This book presents the 16th ICGS3 24 conference which aims to understand the full impact of cyber security AI deepfake and quantum computing on humanity Over the last two decades technology relating to cyber space satellites drones UAVs cyber security artificial intelligence and generative AI has evolved rapidly Today criminals have identified rewards from online frauds therefore the risks and threats of cyber attacks have increased too Detection of the threat is another strand to the strategy and will require dynamic risk management techniques strong and up to date information governance standards and frameworks with AI responsive approaches in order to successfully monitor and coordinate efforts between the parties Thus the ability to minimize the threats from cyber is an important requirement This will be a mission critical aspect of the strategy with development of the right cyber security skills knowledge and culture that are imperative for the implementation of the cyber strategies As a result the requirement for how AI Demand will influence business change and thus influence organizations and governments is becoming important In an era of unprecedented volatile political and economic environment across the world computer based systems face ever more increasing challenges disputes and responsibilities while the Internet has created a global platform for the exchange of ideas goods and services however it has also created boundless opportunities for cyber crime The ethical and legal implications of connecting the physical and digital worlds and presenting the reality of a truly interconnected society present the realization of the concept

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Expert Systems in Engineering

Applications Spyros Tzafestas,2012-12-06 Expert system technology is receiving increasing popularity and acceptance in the engineering community This is due to the fact that there actually exists a close match between the capabilities of the current generation expert systems and the requirements of engineering practice Prepared by a distinguished team of experts this book provides a balanced state of the art presentation of the design principles of engineering expert systems and a representative picture of their capabilities to assist efficiently the design diagnosis and operation of complex industrial plants Among the application areas covered are the following hardware synthesis industrial plant layout design fault diagnosis process control image analysis computer communication electric power systems intelligent control robotics and manufacturing systems The book is appropriate for the researcher and the professional The researcher can save considerable time in searching the scattered technical information on engineering expert systems The professional can have readily available a rich set of guidelines and techniques that are applicable to a wide class of engineering domains

Artificial Intelligence and Its Practical Applications in the Digital Economy Yahya Mohamed Elhadj,Mohamedade Farouk Nanne,Anis Koubaa,Farid Meziane,Mohamed Deriche,2024-11-24 Artificial Intelligence AI technologies hold immense promise for developing countries by offering innovative solutions to longstanding challenges By leveraging AI in health care education economic development infrastructure and resource management these countries can potentially leapfrog traditional development stages and improve the quality of life for their populations However it s essential to approach AI deployment with ethical considerations to ensure that the technology serves the best interests of these communities and thus to maximize the expected benefits The I2COMSAPP 24 International Conference on Artificial Intelligence and its Applications in the Age of Digital Transformation aims to provide an excellent opportunity to gather experts researchers practitioners and innovators from various fields to explore the latest advancements challenges and practical implementations of artificial intelligence and machine learning ML technologies Moreover it aims to foster knowledge sharing collaboration and networking among professionals who are driving responsible and innovative use of AI and leveraging real world applications for the betterment of society and industries

AI-DRIVEN TEST STRATEGIES Enhancing Quality and Efficiency in Software Development

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Advances in Smart Medical, IoT & Artificial Intelligence

Mohammed Serrhini,Kamal Ghoumid,2024-08-31 This comprehensive book brings together the brightest minds in academic featuring a curated selection

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Product Assurance in the Age of Artificial Intelligence Rahul Razdan,2025-05-22 Driven by the vast consumer marketplace the electronics megatrend has reshaped nearly every sector of society The advancements in semiconductors and software originally built to serve consumer demand are now delivering significant value to non consumer industries Today electronics are making inroads into traditionally conservative safety critical sectors such as automotive and aerospace In doing so electronics now further propelled by artificial intelligence are disrupting the functional safety architectures of these cyber physical systems Electronics have created the world of cyber physical systems raising broader concerns about the broader category of product assurance Product Assurance in the Age of Artificial Intelligence continues the work of previous SAE Edge Research Reports in examining open research challenges arising from this shift particularly in automotive systems as core electronic technologies e g the combination of software and communications have even redefined what it means to be a product 9781468609592 9781468609608 <https://doi.org/10.4271/EPR2025011>

Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Artificial Intelligence Approach To Test Generation**

In some sort of inundated with monitors and the cacophony of instantaneous conversation, the profound power and emotional resonance of verbal beauty usually diminish into obscurity, eclipsed by the regular barrage of noise and distractions. However, situated within the musical pages of **Artificial Intelligence Approach To Test Generation**, a fascinating work of literary elegance that pulses with fresh thoughts, lies an unique trip waiting to be embarked upon. Composed by a virtuoso wordsmith, that mesmerizing opus courses readers on a mental odyssey, softly exposing the latent potential and profound influence stuck within the delicate internet of language. Within the heart-wrenching expanse with this evocative evaluation, we shall embark upon an introspective exploration of the book is central subjects, dissect their charming publishing type, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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