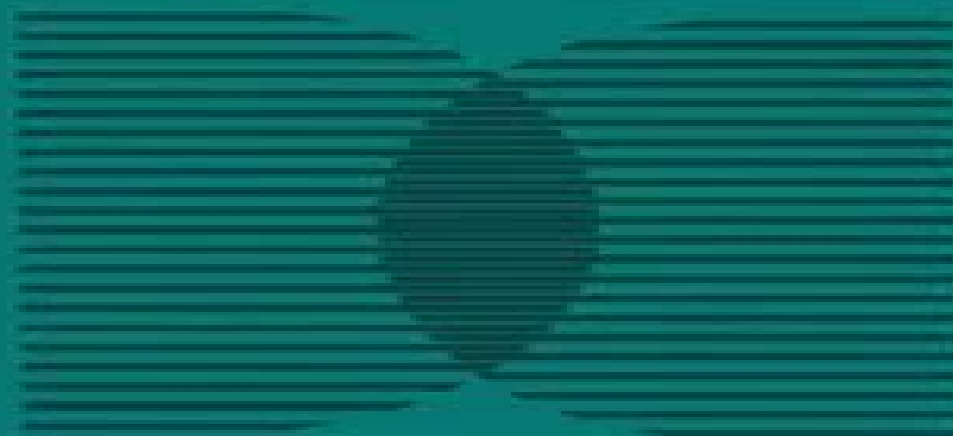


R E A D I N G S I N

Artificial Intelligence and Software Engineering



EDITED BY
CHARLES RICH
RICHARD C. WATERS

Readings In Artificial Intelligence And Software Engineering

K Morrison



Readings In Artificial Intelligence And Software Engineering:

Readings in Artificial Intelligence and Software Engineering Charles Rich, Richard C. Waters, 2014-06-28 Readings in Artificial Intelligence and Software Engineering covers the main techniques and application of artificial intelligence and software engineering The ultimate goal of artificial intelligence applied to software engineering is automatic programming Automatic programming would allow a user to simply say what is wanted and have a program produced completely automatically This book is organized into 11 parts encompassing 34 chapters that specifically tackle the topics of deductive synthesis program transformations program verification and programming tutors The opening parts provide an introduction to the key ideas to the deductive approach namely the correspondence between theorems and specifications and between constructive proofs and programs These parts also describes automatic theorem provers whose development has been designed for the programming domain The subsequent parts present generalized program transformation systems the problems involved in using natural language input the features of very high level languages and the advantages of the programming by example system Other parts explore the intelligent assistant approach and the significance and relation of programming knowledge in other programming system The concluding parts focus on the features of the domain knowledge system and the artificial intelligence programming Software engineers and designers and computer programmers as well as researchers in the field of artificial intelligence will find this book invaluable

Advances in Computers ,1993-09-14 *Advances in Computers* *Automatic Programming Applied to VLSI CAD Software: A Case Study* Dorothy E. Setliff, Rob A. Rutenbar, 2012-12-06 This book and the research it describes resulted from a simple observation we made sometime in 1986 Put simply we noticed that many VLSI design tools looked alike That is at least at the overall software architecture level the algorithms and data structures required to solve problem X looked much like those required to solve problem X Unfortunately this resemblance is often of little help in actually writing the software for problem X given the software for problem X In the VLSI CAD world technology changes rapidly enough that design software must continually strive to keep up And of course VLSI design software and engineering design software in general is often exquisitely sensitive to some aspects of the domain technology in which it operates Modest changes in functionality have an unfortunate tendency to require substantial and time consuming internal software modifications Now observing that large engineering software systems are technology dependent is not particularly clever However we believe that our approach to xiv Preface dealing with this problem took an interesting new direction We chose to investigate the extent to which automatic programming ideas could be used to synthesize such software systems from high level specifications This book is one of the results of that effort

Formal Ontology in Information Systems Carola Eschenbach, Michael Gruninger, 2008 Since its start ten years ago the International Conference in Formal Ontology on Information Systems FOIS has explored the multiple perspectives on the notion of ontology that have arisen from such diverse research communities as philosophy logic computer science cognitive

science linguistics and various scientific domains As ontologies have been applied in new and exciting domains such as the World Wide Web bioinformatics and geographical information systems it has become evident that there is a need for ontologies that have been developed with solid theoretical foundations based on philosophical linguistic and logical analysis Similarly there is also a need for theoretical research that is driven by the issues that have been raised by recent work in the more applied domains FOIS is intended to be a forum in which to explore this interplay between the theoretical insights of formal ontology and their application to information systems and emerging semantic technologies Themes emerging from this volume give a snapshot of current issues within the fields of formal ontology and ontological engineering as well providing a glimpse of future research directions Book Jacket

Intelligent Assurance: Artificial Intelligence-Powered Software Testing in the Modern Development Lifecycle Partha 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 in Education Matthew N.O. Sadiku, Sarhan M. Musa, Uwakwe C. Chukwu, 2022-01-27 The quest for building an artificial brain developed in the fields of computer science and psychology Artificial intelligence AI sometimes called machine intelligence refers to intelligence demonstrated by machines while the natural intelligence is the intelligence displayed by humans and animals Typically AI systems demonstrate at least some of the following human behaviors planning learning reasoning problem solving knowledge representation perception speech recognition decision making language translation motion manipulation intelligence and creativity Artificial intelligence is an emerging technology which the educational sector can benefit from In this book we consider the applications of AI in key areas of education Artificial intelligence in education AIED refers to the application of AI technologies in educational settings to facilitate teaching learning or decision making AI will impact the education field in the areas of administration instruction and personalized and individualized learning applications In this book AI is specifically applied in the following key educational sectors education natural sciences social sciences computer science engineering business and medicine

The Software Life Cycle Darrel Ince, Derek Andrews, 2014-05-20 The Software Life Cycle deals

with the software lifecycle that is what exactly happens when software is developed Topics covered include aspects of software engineering structured techniques of software development and software project management The use of mathematics to design and develop computer systems is also discussed This book is comprised of 20 chapters divided into four sections and begins with an overview of software engineering and software development paying particular attention to the birth of software engineering and the introduction of formal methods of software development The next section explores some aspects of software engineering that tend to get ignored in the literature including functional programming functional programming languages and relational databases The reader is then introduced to structured methods of software development along with software project management The final chapter is devoted to software testing which can be functional or nonfunctional This monograph will be useful to software engineers and designers *Information Systems, Technology and Management* Sushil K. Prasad, Susmi Routray, Reema Khurana, Sartaj Sahni, 2009-03-08 This book constitutes the refereed proceedings of the Third International Conference on Information Systems Technology and Management ICISTM 2009 held in Ghaziabad India in March 2009 The 30 revised full papers presented together with 4 keynote papers were carefully reviewed and selected from 79 submissions The papers are organized in topical sections on storage and retrieval systems data mining and classification managing digital goods and services scheduling and distributed systems advances in software engineering case studies in information management algorithms and workflows authentication and detection systems recommendation and negotiation secure and multimedia systems as well as 14 extended poster abstracts

Innovative Approaches to Planning, Scheduling and Control Katia P. Sycara, 1990 Handbook on Architectures of Information Systems Peter Bernus, Kai Mertins, Günter Schmidt, 2013-03-14 This book is the first volume of a running series under the title International Handbooks on Information Systems The series is edited by Peter Bemus Jacek Blazewicz Günter Schmidt and Mike Shaw One objective is to give state of the art surveys on selected topics of information systems theory and applications To this end a distinguished international group of academics and practitioners are invited to provide a reference source not only for problem solvers in business industry and government but also for professional researchers and graduate students It seemed appropriate to start the series with a volume covering some basic aspects about information systems The focus of the first volume is therefore architectures It was decided to have a balanced number of contributions from academia and practitioners The structure of the material follows a differentiation between modelling languages tools and methodologies These are collected into separate parts allowing the reader of the handbook a better comparison of the contributions Information systems are a major component of the entire enterprise and the reader will notice that many contributions could just as easily have been included in another volume of the series which is on enterprise integration Conversely some traditionally information systems topics as organisational analysis and strategic change management methods will be treated in more depth in the Handbook on Enterprise Integration The two volumes will complement each other Automated and

Algorithmic Debugging Peter A. Fritzson, 1993-11-10 Debugging has always been a costly part of software development and many attempts have been made to provide automatic computer support for this task Automated debugging has seen major developments over the last decade One successful development is algorithmic debugging which originated in logic programming but was later generalized to concurrent imperative and lazy functional languages Important advances have also been made in knowledge based program debugging and in approaches to automated debugging based on static and dynamic program slicing based on dataflow and dependence analysis technology This is the first collected volume of papers on automated debugging and presents latest developments tutorial papers and surveys

Computer Systems and Software Engineering Patrick DeWilde, Joos P.L. Vandewalle, 2012-12-06 Computer Systems and Software Engineering is a compilation of sixteen state of the art lectures and keynote speeches given at the COMPEURO 92 conference The contributions are from leading researchers each of whom gives a new insight into subjects ranging from hardware design through parallelism to computer applications The pragmatic flavour of the contributions makes the book a valuable asset for both researchers and designers alike The book covers the following subjects Hardware Design memory technology logic design algorithms and architecture Parallel Processing programming cellular neural networks and load balancing Software Engineering machine learning logic programming and program correctness Visualization the graphical computer interface

Expert Systems and Related Topics Marlene A. Palmer, 1990-01-01 This comprehensive reference to all areas of expert systems and applications plus advanced related topics lets you spend your time reading expert systems literature rather than searching for it It gives you a source of historical perspectives and outlooks on the future of the field Whether you are a manager a developer or an end user or researcher Expert Systems and Related Topics Selected Bibliography Guide to Information Sources puts all the sources of expert systems literature at your fingertips

Engineering Artificial Intelligence Software Derek Partridge, 1992 This book explains the reality of exploiting the promise of AI in software systems It presents the realities the problems the current state of the art and future directions It includes an examination of the problems that engineering AI software involves and a consideration of the alternative routes to solution of these problems

Inductive Synthesis of Functional Programs Ute Schmid, 2003-09-09 Because of its promise to support human programmers in developing correct and efficient program code and in reasoning about programs automatic program synthesis has attracted the attention of researchers and professionals since the 1970s This book focusses on inductive program synthesis and especially on the induction of recursive functions it is organized into three parts on planning inductive program synthesis and analogical problem solving and learning Besides methodological issues in inductive program synthesis emphasis is placed on its applications to control rule learning for planning Furthermore relations to problem solving and learning in cognitive psychology are discussed

Analogical and Inductive Inference Klaus P. Jantke, 1989-09-20 In diesem Buch werden die wesentlichen Aspekte der in den letzten Jahren recht kontrovers geführten Diskussion über das Thema Krankheitsverarbeitung

diskutiert Mehrere Beitr ge besch ftigen sich theoretisch und empirisch mit der Frage ob es sinnvoll ist Coping und Abwehr gegeneinander abzugrenzen Ein berblick ber Me verfahren zu Copingprozessen soll die Beurteilung von Ergebnissen erleichtern und bei der Planung und Durchf hrung von Untersuchungen zu diesem Thema behilflich sein Empirische Ergebnisse bei verschiedenen Krankheitsbildern Krebs Herzinfarkt chronische Niereninsuffizienz Multiple Sklerose und Alkoholismus und unter verschiedenen Fragestellungen demonstrieren M glichkeiten und Grenzen unterschiedlicher methodischer Vorgehensweisen

Encyclopedia of Microcomputers Allen Kent,James G. Williams,1990-10-26 The Encyclopedia of Microcomputers serves as the ideal companion reference to the popular Encyclopedia of Computer Science and Technology Now in its 10th year of publication this timely reference work details the broad spectrum of microcomputer technology including microcomputer history explains and illustrates the use of microcomputers throughout academe business government and society in general and assesses the future impact of this rapidly changing technology

Encyclopedia of Computer Science and Technology Allen Kent,James G. Williams,1994-02-08 This comprehensive reference work provides immediate fingertip access to state of the art technology in nearly 700 self contained articles written by over 900 international authorities Each article in the Encyclopedia features current developments and trends in computers software vendors and applications extensive bibliographies of leading figures in the field such as Samuel Alexander John von Neumann and Norbert Wiener and in depth analysis of future directions

Machine Learning in Production Christian Kastner,2025-04-08 A practical and innovative textbook detailing how to build real world software products with machine learning components not just models Traditional machine learning texts focus on how to train and evaluate the machine learning model while MLOps books focus on how to streamline model development and deployment But neither focus on how to build actual products that deliver value to users This practical textbook by contrast details how to responsibly build products with machine learning components covering the entire development lifecycle from requirements and design to quality assurance and operations Machine Learning in Production brings an engineering mindset to the challenge of building systems that are usable reliable scalable and safe within the context of real world conditions of uncertainty incomplete information and resource constraints Based on the author s popular class at Carnegie Mellon this pioneering book integrates foundational knowledge in software engineering and machine learning to provide the holistic view needed to create not only prototype models but production ready systems Integrates coverage of cutting edge research existing tools and real world applications Provides students and professionals with an engineering view for production ready machine learning systems Proven in the classroom Offers supplemental resources including slides videos exams and further readings

Readings in Agents Michael N. Huhns,Munindar P. Singh,1998 This book collects the most significant literature on agents in an attempt top forge a broad foundation for the field Includes papers from the perspectives of AI databases distributed computing and programming languages The book will be of interest to programmers and developers especially in Internet areas

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