

# Introduction

- Program's correctness is one of the most important problem in computer science:
  - Partial correctness: a program  $P$  that terminates for any given input provides the expected output;
  - Total correctness: Partial correctness + Termination
    - A program  $P$  terminates if it executes a finite number of steps for any input until provides the output.
  - Total correctness is more important than partial correctness (M. Huth and M. Ryan: Logic in Computer Science. Modelling and Reasoning about Systems. Cambridge Press, 2004)

# Correctness Problem In Computer Science

**Charles Rich, Richard C. Waters**



## **Correctness Problem In Computer Science:**

**The Correctness Problem in Computer Science** Robert S. Boyer, J. Strother Moore, 1981      **The Correctness Problem in Computer Science** Robert S. Boyer, J. Strother Moore, 1981      **Constructive Methods in Computing Science** Manfred Broy, 2012-12-06

Computing Science is a science of constructive methods. The solution of a problem has to be described formally by constructive techniques if it is to be evaluated on a computer. The Marktoberdorf Advanced Study Institute 1988 presented a comprehensive survey of the recent research in constructive methods in Computing Science. Some approaches to a methodological framework and to supporting tools for specification development and verification of software systems were discussed in detail. Other lectures dealt with the relevance of the foundations of logic for questions of program construction and with new programming paradigms and formalisms which have proven to be useful for a constructive approach to software development. The construction specification design and verification especially of distributed and communicating systems was discussed in a number of complementary lectures. Examples for those approaches were given on several levels such as semaphores, nondeterministic state transition systems with fairness assumptions, decomposition of specifications for concurrent systems, liveness and safety properties and functional specifications of distributed systems. Construction methods in programming that were presented range from type theory, the theory of evidence, theorem provers for proving properties of functional programs to category theory as an abstract and general concept for the description of programming paradigms.

The Second Age of Computer Science Subrata Dasgupta, 2018-05-01

By the end of the 1960s a new discipline named computer science had come into being. A new scientific paradigm, the computational paradigm, was in place suggesting that computer science had reached a certain level of maturity. Yet as a science it was still precociously young. New forces, some technological, some socio-economic, some cognitive, impinged upon it, the outcome of which was that new kinds of computational problems arose over the next two decades. Indeed, by the beginning of the 1990s the structure of the computational paradigm looked markedly different in many important respects from how it was at the end of the 1960s. Author Subrata Dasgupta named the two decades from 1970 to 1990 as the second age of computer science to distinguish it from the preceding genesis of the science and the age of the Internet/World Wide Web that followed. This book describes the evolution of computer science in this second age in the form of seven overlapping, intermingling parallel histories that unfold concurrently in the course of the two decades. Certain themes characteristic of this second age thread through this narrative: the desire for a genuine science of computing; the realization that computing is as much a human experience as it is a technological one; the search for a unified theory of intelligence spanning machines and mind; the desire to liberate the computational mind from the shackles of sequentiality; and most ambitiously, a quest to subvert the very core of the computational paradigm itself. We see how the computer scientists of the second age address these desires and challenges in what manner they succeed or fail and how, along the way, the shape of the computational paradigm was altered. And to complete

this history the author asks and seeks to answer the question of how computer science shows evidence of progress over the course of its second age

**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

**Real-Time Programming 1992** J.A. De La Puente, L. Boullart, 2017-02-21 The 47 papers in this volume provide a useful reference tool for the state of the art research in real time programming

**Error-Free Software** Robert L. Baber, 1991-08 Demonstrates how formal mathematical methods of proving correctness can help decrease the incidence of design errors bugs in software development While all the techniques described here have a rigorous mathematical foundation it is omitted in favor of emphasizing practical applications

*Teaching Formal Methods* Jeremy Gibbons, Jose Nuno Oliveira, 2009-10-26 This volume contains the proceedings of TFM2009 the Second International FME Conference on Teaching Formal Methods organized by the Subgroup of Education of the Formal Methods Europe FME association The conference took place as part of the first Formal Methods Week FMWeek held in Eindhoven The Netherlands in November 2009 TFM2009 was a one day forum in which to explore the successes and failures of formal method FM education and to promote cooperative projects to further education and training in FMs The organizers gathered lecturers teachers and industrial partners to discuss their experience present their pedagogical methodologies and explore best practices Interest in FM teaching is growing TFM2009 followed in a series of events on teaching FMs which includes two BCS FACS TFM workshops Oxford in 2003 and London in 2006 the TFM2004 conference Ghent 2004 with proceedings published as Springer LNCS Volume 3294 the FM Ed 2006 workshop Hamilton co located with FM2006 FORMED Budapest at ETAPS2008 and FMET2008 Kitakyushu co located with ICFEM2008 FMs have an important role to play in the development of complex computing systems a role acknowledged in industrial

standards such as IEC61508 and ISO IEC15408 and in the increasing use of precise modelling notations semantic markup languages and model driven techniques There is a growing need for software engineers who can work effectively with simple mathematical abstractions and with practical notions of inference and proof

**Reflections on Programming Systems** Liesbeth De Mol, Giuseppe Primiero, 2019-01-10 This book presents a historical and philosophical analysis of programming systems intended as large computational systems like for instance operating systems programmed to control processes The introduction to the volume emphasizes the contemporary need of providing a foundational analysis of such systems rooted in a broader historical and philosophical discussion The different chapters are grouped around three major themes The first concerns the early history of large systems developed against the background of issues related to the growing semantic gap between hardware and code The second revisits the fundamental issue of complexity of large systems dealt with by the use of formal methods and the development of grand designs like Unix Finally a third part considers several issues related to programming systems in the real world including chapters on aesthetical ethical and political issues This book will interest researchers from a diversity of backgrounds It will appeal to historians philosophers as well as logicians and computer scientists who want to engage with topics relevant to the history and philosophy of programming and more specifically the role of programming systems in the foundations of computing

**Symposium on Theoretical Aspects of Computer Science**, 1984

**Constructing Correct Software** D. John Cooke, 2007-12-31 Links constructive software development to traditional problem solving methods Not dependent on any particular specification language but is based instead on their common core

**ACM Transactions on Programming Languages and Systems** Association for Computing Machinery, 1999

**Current Issues in Expert Systems** Axel Lamsweerde, Pierre Dufour, 1987 Early work in artificial intelligence was mainly concerned with general problem solving procedures The application of these procedures to large real world problems was at first unsuccessful Major progress was later made by allowing the problem solving process to make use of separate explicit sources of knowledge concerning highly specific problem domains This gave rise to a first generation of expert knowledge based systems The next step was to improve the power and flexibility of the various knowledge processing techniques and to develop effective software and hardware architectures to implement them efficiently This major challenge remains at the core of many of the fifth generation computer projects

**Trends in Theoretical Computer Science** Egon Börger, 1988

**Automata, Languages, and Programming** Serge Abiteboul, Eli Shamir, 1994-06-15 This volume constitutes the proceedings of the 21st International Colloquium on Automata Languages and Programming ICALP 94 held at Jerusalem in July 1994 ICALP is an annual conference sponsored by the European Association on Theoretical Computer Science EATCS The proceedings contains 48 refereed papers selected from 154 submissions and 4 invited papers The papers cover the whole range of theoretical computer science they are organized in sections on theory of computation automata and computation models expressive power automata and concurrency pattern matching data structures

computational complexity logic and verification formal languages term rewriting algorithms and communications graph algorithms randomized complexity various algorithms      **The Spine of Software** Robert L. Baber, 1987 Every engineering field is founded on a body of fundamental scientific and mathematical principles providing a basis for the design process and enabling designers to systematically validate the major characteristics of a proposed system In recent years computing science has generated a similar body of principles allowing software engineers to design error free programs This book presents this core of knowledge The concepts covered are based on the view that a variable is a triple of a name a set and an element of that set a value that a data environment the execution of a program is a sequence of variables and that a statement subprogram or program serves to map a data environment into another data environment While the material is treated in a mathematically rigorous fashion it is carefully written to show software developers how to apply theory to practical design tasks      The First International Conference on Computers and Applications, Beijing, China, June 20-22, 1984, 1984      Automata, Languages, and Programming Michael S. Paterson, 1990 Papers from the 17th International Colloquium held in England July 1990 They cover all important areas of theoretical computer science such as computability formal languages computational complexity data types and structures term rewriting systems robotics No index Annotation copyrighted by Book News Inc Portland OR      *Automata, Languages and Programming*, 1994      **Journal of the ACM.**, 1996

The Top Books of the Year Correctness Problem In Computer Science The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Correctness Problem In Computer Science : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Correctness Problem In Computer Science : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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