

The Carnegie-Mellon Curriculum for Undergraduate Computer Science

Edited by **Mary Shaw**



Springer-Verlag
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The Carnegie Mellon Curriculum For Undergraduate Computer Science

Mary Shaw



The Carnegie Mellon Curriculum For Undergraduate Computer Science:

The Carnegie-Mellon Curriculum for Undergraduate Computer Science S.D. Brookes, Mary Shaw, M. Donner, J. Driscoll, M. Mauldin, R. Pausch, W.L. Scherlis, A.Z. Spector, 2012-12-06 This curriculum and its description were developed during the period 1981-1984 *The Carnegie-Mellon Curriculum for Undergraduate Computer Science* Mary Shaw, 1985-01 **A**

Computer Science Reader Eric A. Weiss, 2012-12-06 A Computer Science Reader covers the entire field of computing from its technological status through its social economic and political significance The book's clearly written selections represent the best of what has been published in the first three and a half years of ABACUS Springer Verlag's international quarterly journal for computing professionals Among the articles included are U.S. versus IBM An Exercise in Futility by Robert P. Bigelow Programmers The Amateur vs the Professional by Henry Ledgard The Composer and the Computer by Lejaren Hiller SDI A Violation of Professional Responsibility by David L. Parnas Who Invented the First Electronic Digital Computer by Nancy Stern Foretelling the Future by Adaptive Modeling by Ian H. Witten and John G. Cleary The Fifth Generation Banzai or Pie in the Sky by Eric A. Weiss This volume contains more than 30 contributions by outstanding and authoritative authors grouped into the magazine's regular categories Editorials Articles Departments Reports from Correspondents and Features A Computer Science Reader will be interesting and important to any computing professional or student who wants to know about the status trends and controversies in computer science today *Software Engineering Education in the Modern Age*

Paola Inverardi, Mehdi Jazayeri, 2006-12-15 This tutorial book presents an augmented selection of the material presented at the Software Engineering Education and Training Track at the International Conference on Software Engineering ICSE 2005 held in St. Louis, MO, USA in May 2005 The 12 tutorial lectures presented cover software engineering education state of the art and practice creativity and rigor challenges for industries and academia as well as future directions Working papers on an undergraduate computer science curriculum. Edited by M. Shaw Carnegie-Mellon University. Computer Science Department, Mary Shaw, 1983 **Software Engineering Education** B.Z. Barta, S.L. Hung, K.R. Cox, 2013-10-22 Software engineering education is an important often controversial issue in the education of Information Technology professionals It is of concern at all levels of education whether undergraduate post graduate or during the working life of professionals in the field This publication gives perspectives from academic institutions industry and education bodies from many different countries Several papers provide actual curricula based on innovative ideas and modern programming paradigms Various aspects of project work as an important component of the educational process are also covered and the uses of software tools in the software industry and education are discussed The book provides a valuable source of information for all those interested and involved in software engineering education **Teaching and Learning Formal Methods** C. Neville

Dean, Michael G. Hinchey, 1996-09-17 As computer systems continue to advance the positions they hold in human society continue to gain power Computers now control the flight of aircraft the cooling systems in chemical plants and feedback

loops in nuclear reactors Because of the vital roles these systems play there has been growing concern about the reliability and safety of these advanced computers Formal methods are now widely recognized as the most successful means of assuring the reliability of complex computer systems Because formal methods are being mandated in more and more international standards it is critical that engineers managers and industrial project leaders are well trained and conversant in the application of these methods This book covers a broad range of issues relating to the pedagogy of formal methods The contributors all acknowledged experts have based their contributions on extensive experiences teaching and applying formal methods in both academia and industry The two editors both well known in this area propose various techniques that can help to dismiss myths that formal methods are difficult to use and hard to learn Teaching and Learning Formal Methods will be an indispensable text for educators in the fields of computer science mathematics software engineering and electronic engineering as well as to management and product leaders concerned with training recent graduates Offers proven methods for teaching formal methods even to students who lack a strong background in mathematics Addresses the important role that formal methods play in society and considers their growing future potential Includes contributions from several pioneers in the area Features a foreword written by Edsger W Dijkstra *The Future of College Mathematics* A. Ralston, G. S. Young, 2012-12-06 The Conference Workshop of which these are the proceedings was held from 28 June to 1 July 1982 at Williams College Williamstown MA The meeting was funded in its entirety by the Alfred P Sloan Foundation The conference program and the list of participants follow this introduction The purpose of the conference was to discuss the restructuring of the first two years of college mathematics to provide some balance between the traditional calculus linear algebra sequence and discrete mathematics The remainder of this volume contains arguments both for and against such a change and some ideas as to what a new curriculum might look like A too brief summary of the deliberations at Williams is that while there were and are inevitable differences of opinion on details and nuance at least the attendees at this conference had no doubt that change in the lower division mathematics curriculum is desirable and is coming **Scientific and Technical Aerospace Reports** ,1994 **Encyclopedia of Information Science and Technology** Mehdi Khosrow-Pour, Mehdi Khosrowpour, 2009 This set of books represents a detailed compendium of authoritative research based entries that define the contemporary state of knowledge on technology Provided by publisher

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