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Computer Science Glenn Brookshear, Dennis Brylow, 2014-12-10 This is the eBook of the printed book and may not include any media website access codes or print supplements that may come packaged with the bound book Computer Science An Overview is intended for use in the Introduction to Computer Science course It is also suitable for all readers interested in a breadth first introduction to computer science Computer Science uses broad coverage and clear exposition to present a complete picture of the dynamic computer science field Accessible to students from all backgrounds Glenn Brookshear and Dennis Brylow encourage the development of a practical realistic understanding of the field An overview of each of the important areas of Computer Science provides students with a general level of proficiency for future courses This new edition incorporates an introduction to the Python programming language into key chapters Teaching and Learning Experience This program will provide a better teaching and learning experience for you and your students It will help Develop a Practical Realistic Understanding of Computer Science An overview of each of the important areas of Computer Science prepares students for future courses Fit your Course Preferences Individual chapters are independent and can be covered in an order that suits your course Use Python to prepare students for future courses A new focus on Python provides programming tools for exploration and experimentation Reinforce Core Concepts More than 1000 Questions and Exercises Chapter Review Problems and Social Issues questions give students the opportunity to apply concepts Support Learning with Student Resources The Companion Website www.pearsonhighered.com/brookshear features resources that enhance learning

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Learning Management Systems and Instructional Design: Best Practices in Online Education Kats, Yefim, 2013-04-30 The technical resources budgets curriculum and profile of

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Forthcoming Books Rose Arny,2002 **Introduction to Programming Languages** Arvind Kumar Bansal,2013-12-14 In programming courses using the different syntax of multiple languages such as C Java PHP and Python for the same abstraction often confuses students new to computer science Introduction to Programming Languages separates programming language concepts from the restraints of multiple language syntax by discussing the concepts at an abstract level Designed for a one semester undergraduate course this classroom tested book teaches the principles of programming language design and implementation It presents Common features of programming languages at an abstract level rather than a comparative level The implementation model and behavior of programming paradigms at abstract levels so that students understand the power and limitations of programming paradigms Language constructs at a paradigm level A holistic view of programming language design and behavior To make the book self contained the author introduces the necessary concepts of data structures and discrete structures from the perspective of programming language theory The text covers classical topics such as syntax and semantics imperative programming program structures information exchange between subprograms object oriented programming logic programming and functional programming It also explores newer topics including dependency analysis communicating sequential processes concurrent programming constructs web and multimedia programming event based programming agent based programming synchronous languages high productivity programming on massive parallel computers models for mobile computing and much more Along with problems and further reading in each chapter the book includes in depth examples and case studies using various languages that help students understand syntax in practical contexts *Automatic Generation Of Algorithms* Victor Parada,2025-02-10 In the rapidly evolving domain of

computational problem solving this book delves into the cutting edge Automatic Generation of Algorithms AGA paradigm a groundbreaking approach poised to redefine algorithm design for optimization problems Spanning combinatorial optimization machine learning genetic programming and beyond it investigates AGA s transformative capabilities across diverse application areas The book initiates by introducing fundamental combinatorial optimization concepts and NP-hardness significance laying the foundation for understanding AGA s necessity and potential It then scrutinizes the pivotal Master Problem concept in AGA and the art of modeling for algorithm generation The exploration progresses with integrating genetic programming and synergizing AGA with evolutionary computing Subsequent chapters delve into the AGA machine learning intersection highlighting their shared optimization foundation while contrasting divergent objectives The automatic generation of metaheuristics is examined aiming to develop versatile algorithmic frameworks adaptable to various optimization problems Furthermore the book explores applying reinforcement learning techniques to automatic algorithm generation Throughout it invites readers to reimagine algorithmic design boundaries offering insights into AGA s conceptual underpinnings practical applications and future directions serving as an invitation for researchers practitioners and enthusiasts in computer science operations research artificial intelligence and beyond to embark on a journey toward computational excellence where algorithms are born evolved and adapted to meet ever changing real world problem landscapes

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