

Understanding Molecular Simulation From Algorithms To Applications

From Algorithms to Hardware Architectures
From Algorithms to Thinking Machines
Scalable Optimization via Probabilistic Modeling
Algorithms to Live By
Algorithms
Mathematics, the Science of Algorithms
The Characteristics of Parallel Algorithms
Design Paradigm for Implementing Robotic Control Algorithms in ASIC
Annual Symposium on Theoretical Aspects of Computer Science
U.S. Government Research & Development Reports
Algorithms and Technologies for Multispectral, Hyperspectral, and Ultraspectral Imagery
Data Structures and Algorithm Analysis in Java
Algorithms for Synthetic Aperture Radar Imagery
X
Encyclopedia of Physical Science and Technology
Recent Technical Developments in Telecommunications
Atmospheric and Environmental Remote Sensing Data Processing and Utilization
Automation and Remote Control
Digital Signal Processing Applications
Soviet Journal of Optical Technology
Nursing Informatics
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Domenico Talia
Martin Pelikan
Brian Christian
Lydia Kronsjö
James Byrnie
Shaw Leah
H. Jamieson
Steven S. Leung
Mark Allen Weiss
Edmund G. Zelnio
Paul Levaux
Allen Hung-Lung Huang
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this book uses digital radios as a challenging design example generalized to bridge a typical gap between designers who work on algorithms and those who work to implement those algorithms on silicon the author shows how such a complex system can be moved from high level characterization to a form that is ready for hardware implementation along the way readers learn a lot about how algorithm designers can benefit from knowing the hardware they target and how hardware designers can benefit from a familiarity with the algorithm the book shows how a high level description of an algorithm can be migrated to a fixed point block diagram with a well defined cycle accurate architecture and a fully documented controller this can significantly reduce the length of the hardware design cycle and can improve its outcomes ultimately the book presents an explicit design flow that bridges the gap between algorithm design and hardware design provides a guide to baseband radio design for wi fi and cellular systems from an implementation focused perspective explains how arithmetic is moved to hardware and what the cost of each operation is in terms of delay area and power enables strategic architectural decisions based on the algorithm available processing units and design requirements

this book introduces and provides an analysis of the basic concepts of algorithms data and computation and discusses the role of algorithms in ruling and shaping our world it provides a clear understanding of the power and impact on humanity of the pervasive use of algorithms from algorithms to thinking machines combines a layman s approach with a well founded scientific description to discuss both principles and applications of algorithms big data and machine intelligence the book provides a clear and deep description of algorithms software systems data driven applications machine learning and data science concepts as well as the evolution and impact of artificial intelligence after introducing computing concepts the book examines the relationships between algorithms and human work discussing how jobs are being affected and how computers and software programs are influencing human life and the labor sphere topics such as value alignment collective intelligence big data impact automatic decision methods social control and political uses of algorithms are illustrated and discussed at length without excessive technical detail issues related to how corporations governments and autocratic regimes are exploiting algorithms and machine intelligence methods to influence people laws and markets are extensively addressed ethics principles in software programming and human value insertion into artificial intelligence algorithms are also discussed

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an exploration of how computer algorithms can be applied to our everyday lives to solve common decision making problems and illuminate the workings of the human mind what should we do or leave undone in a day or a lifetime how much messiness should we accept what balance of the new and familiar is the most fulfilling these may seem like uniquely human quandaries but they are not computers like us confront limited space and time so computer scientists have been grappling with similar problems for decades and the solutions they ve found have much to teach us in a dazzlingly interdisciplinary work brian christian and tom griffiths show how algorithms developed for computers also untangle very human questions they explain how to have better hunches and when to leave things to chance how to deal with overwhelming choices and how best to connect with others from finding a spouse to finding a parking spot from organizing one s inbox to peering into the future algorithms to live by transforms the wisdom of computer science into strategies for human living

like the first edition this book is concerned with the study of algorithms and their complexity and the evaluation of their performance

mathematics of computing parallelism

as the speed and power of computers increases so does the need for effective programming and algorithm analysis by approaching these skills in tandem mark allen weiss teaches readers to develop well constructed maximally efficient programs in java a full language update to java 5 0 throughout the text particularly its use of generics adds immeasurable value to this advanced study of data structures and algorithms this second edition features integrated coverage of the java collections library as well as a complete revision of lists stacks queues and trees weiss clearly explains topics from binary heaps to sorting to np completeness and dedicates a full chapter to amortized analysis and advanced data structures and their implementation figures and examples illustrating successive stages of algorithms contribute to weiss careful rigorous and in depth analysis of each type of algorithm a logical organization of topics and full access to source code compliment the text s coverage

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the telecommunication industry and services are experiencing tremendous changes due to technical progress and especially to joint utilization of telecommunication and computers these changes have a profound impact on society as a whole the conduct of business public services and our private lives the present book completes a set of two volumes devoted to this subject the first volume s schaff editor elsevier 1990 dealt more specifically with the economic and regulatory aspects of telecommunications the present volume explores those recent achievements which have made telecommunications one of the largest and fastest growing economic engines of the nineties

proceedings of spie present the original research papers presented at spie conferences and other high quality conferences in the broad ranging fields of optics and photonics these books provide prompt access to the latest innovations in research and technology in their respective fields proceedings of spie are among the most cited references in patent literature

since 1985 the nursing profession has made significant progress in informatics the fifth international symposium on nursing informatics clearly showed that the nursing profession is well aware of the potential that computer technology holds for improving the quality and efficiency of health care if information systems are well designed integrated and professionally managed the structure of the symposium and the organization of the papers in this volume represent the work of the scientific programme committee and the editors in addition to the scientific papers the editors have also included authors descriptions of panels posters and scientific demonstrations giving readers an excellent overview of the current state of the art of nursing informatics in order to encourage young colleagues to publish graduate students in nursing informatics submitted poster abstracts that are also included in the volume

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