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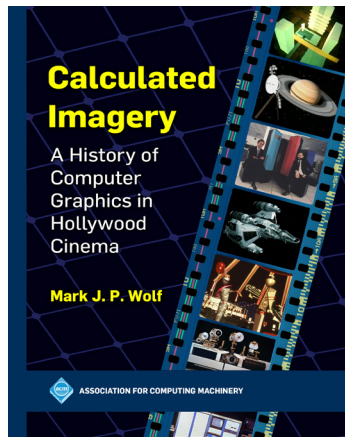


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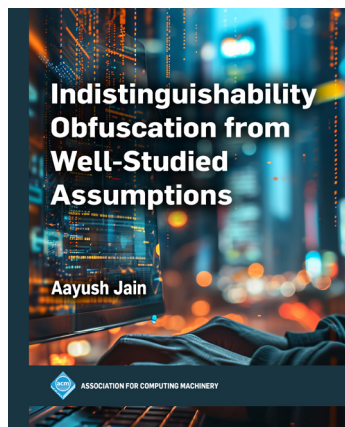
A History of Computer Graphics in Hollywood

Mark J.P. Wolf, *Concordia University Wisconsin*

ISBN: 9798400712661 | DOI: 10.1145/3694828 | © 2025 | 1,012 pages

Paperback: \$89.95 | Hardcover: \$109.95 | eBook: \$71.96

This is a comprehensive history of computer graphics in Hollywood cinema. As the first such work of its kind, it is an essential reference for anyone interested in the history of cinema, visual effects, or computer graphics, and the industries of which they are a part. Throughout the book, the histories of individuals, companies, films, and computer graphics techniques are explored in detail, as well as changes in the visual effects (VFX) industry itself over time.



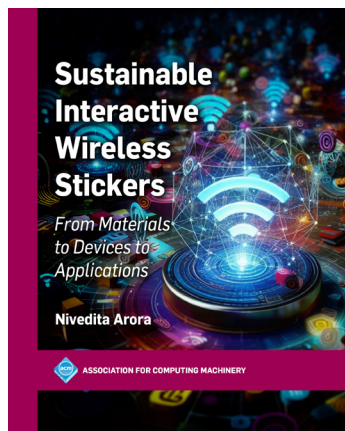
Indistinguishability Obfuscation from Well-Studied Assumptions

Aayush Jain, *Carnegie Mellon University*

ISBN: 9798400713668 | DOI: 10.1145/3705540 | © 2025 | 134 pages

Paperback: \$54.95 | Hardcover: \$74.95 | eBook: \$43.96

Software obfuscation is used in cryptography to transform source code to make it unintelligible without altering what it computes. As a software security mechanism, it is essential that software obfuscation have a firm mathematical foundation. The research described in this book, for which the author won the ACM Dissertation Award, establishes the feasibility of mathematically rigorous software obfuscation from well-studied hardness conjectures.



Sustainable Interactive Wireless Stickers

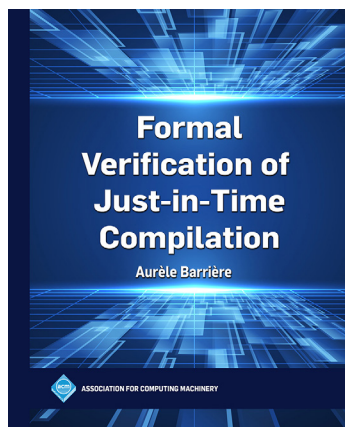
From Materials to Devices to Applications

Nivedita Arora

ISBN: 9798400713743 | DOI: 10.1145/3705572 | © 2025 | 226 pages

Paperback: \$64.95 | Hardcover: \$84.95 | eBook: \$51.96

Today's Internet of Things (IoT) devices are bulky, expensive, require battery maintenance, and involve costly installation. In contrast, the interactive stickers introduced in this monograph are low maintenance, inexpensive, and easy to deploy. Focusing on power, form factor, and cost as system design parameters, the author describes stickers that have simple circuitry and can sustain themselves while wirelessly communicating and responding to various human interactions.



Formal Verification of Just-in-Time Compilation

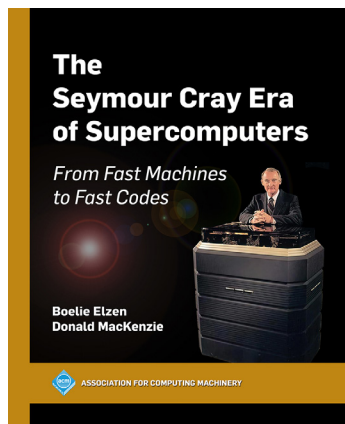
Aurèle Barrière, *EPFL*

ISBN: 9798400713781 | DOI: 10.1145/3705593 | © 2025 | 174 pages

Paperback: \$54.95 | Hardcover: \$74.95 | eBook: \$43.96

This book outlines a methodology to develop formally verified Just-in-Time compilers. Just-in-Time compilation is a technique to execute programs, where execution is interleaved with optimizations of the program itself. These compilers often produce fast executions, so much so that their use has grown greatly for dynamic programming languages. Most modern web browsers today use Just-in-Time compilation to speed up the execution of the JavaScript programs they execute.

COLLECTION 3 - NEW



The Seymour Cray Era of Supercomputers

From Fast Machines to Fast Codes

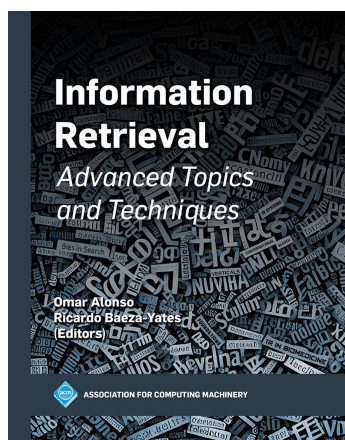
Boelie Elzen, Wageningen University

Donald MacKenzie, University of Edinburgh

ISBN: 9798400713705 | DOI: 10.1145/3705551 | © 2025 | 282 pages

Paperback: \$44.95 | Hardcover: \$64.95 | eBook: \$35.96

This book describes the development and use of supercomputers in the period 1960-1996, a time that can be called the Seymour Cray Era. For more than three decades, Cray's computer designs were seen as the yardstick against which all other efforts were measured.



Information Retrieval

Advanced Topics and Techniques

Omar Alonso, Ricardo Baeza-Yates, Editors

ISBN: 9798400710506 | DOI: 10.1145/3674127 | © 2025 | 836 pages

Paperback: \$129.95 | Hardcover: \$149.95 | eBook: \$103.96

In the last decade, deep learning and word embeddings have made significant impacts on information retrieval by adding techniques based in neural networks and language models. At the same time, certain search modalities like neural IR and conversational search have become more popular. This book, written by international academic and industry experts, brings the field up to date with detailed discussions of these new approaches and techniques.



Formal Methods for Safe Autonomy

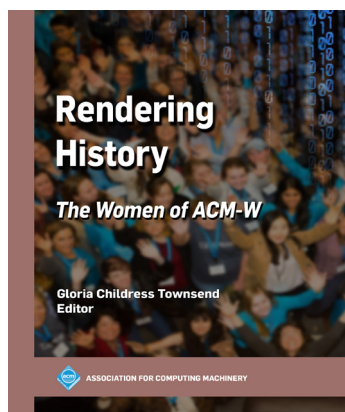
Data-driven Verification, Synthesis, and Applications

Chuchu Fan, Massachusetts Institute of Technology

ISBN: 9798400708633 | DOI: 10.1145/3603288 | © 2024 | 184 pages

Paperback: \$54.95 | Hardcover: \$74.95 | eBook: \$43.96

The book provides insights on the level of assurance that can be provided by formal methods to today's autonomous systems. Autonomous systems are often safety-critical and are expected to work in uncertain environments. Existing design and test methodologies are inadequate so we introduce new verification and synthesis algorithms to provide certifiable trusts for products with the vagaries of realworld autonomous systems.



Rendering History

The Women of ACM-W

Gloria Childress Townsend, DePauw University

ISBN: 9798400717727 | DOI: 10.1145/3640508 | © 2024 | 478 pages

Paperback: \$49.95 | Hardcover: \$69.95 | eBook: \$39.96

This book was published in celebration of ACM-W's 30th birthday and divides the history of ACM-W into three parts. ACM-W advocates internationally for the full engagement of women in all aspects of the computing field, providing a wide range of programs and services to ACM members and working in the larger community to advance the contributions of technical women.

COLLECTION 3 - NEW



Pick, Click, Flick!

The History of Interaction Techniques

Brad A. Myers, Carnegie Mellon University

ISBN: 9798400709470 | DOI: 10.1145/3617448 | © 2024 | 810 pages

Paperback: \$69.95 | Hardcover: \$89.95 | eBook: \$47.96

This book provides a comprehensive study of the many ways to interact with computers and computerized devices. An “interaction technique” starts when the user performs an action that causes an electronic device to respond, and includes the direct feedback from the device to the user. *Pick, Click, Flick!* is written for anyone interested in interaction techniques.



Digital Dreams Have Become Nightmares What We Must Do, 2nd Edition

Ron Baecker, University of Toronto, with Jonathan Grudin, Microsoft

ISBN: 9798400717680 | DOI: 10.1145/3640479 | © 2024 | 358 pages

Paperback: \$39.95 | Hardcover: \$59.95 | eBook: \$31.96

Digital technologies have made amazing progress over the past 80 years, especially in the health sector, communications, commerce, community and recent advances in AI. However, there are side effects, nightmares that now threaten all of us. If humankind risks painting itself into a new-age technological holocaust, how can we act to mitigate the damages through ethical career decisions, careful analysis, thoughtful design, consideration of how bad actors may use technology, research, citizen engagement, legislation, and regulation?



Spatial Gems, Volume 2

John Krumm, Microsoft Research

Andreas Züfle, George Mason University

Cyrus Shahabi, University of Southern California

ISBN: 9798400709340 | DOI: 10.1145/3617291 | © 2024 | 158 pages

Paperback: \$49.95 | Hardcover: \$69.95 | eBook: \$39.96

Spatial gems are computational techniques for processing spatial data. This book is a further collection of techniques contributed by leading research experts. Although these approaches were developed as part of larger research projects, the gems represent fundamental solutions that are generically applicable to many different problems. Our goal is to expose these useful techniques that are not yet in textbooks and often buried inside technical research papers.



From Algorithms to Thinking Machines

The New Digital Power

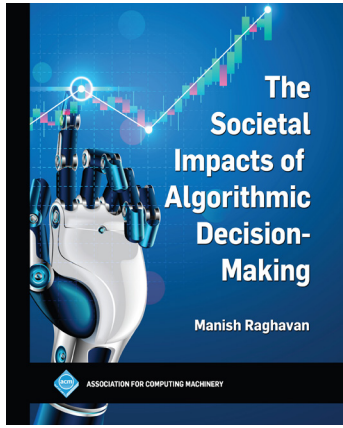
Domenico Talia, University of Calabria

ISBN: 9798400708572 | DOI: 10.1145/3603178 | © 2024 | 308 pages

Paperback: \$39.95 | Hardcover: \$59.95 | eBook: \$31.96

This book uses an informative style to present the concepts of algorithms, data and computation and discuss the role of algorithms and computers in ruling and shaping the world in which we live and work. The main goal is to help readers to clearly understand the power and impact of pervasive use of algorithms on human lives.

COLLECTION 3 - NEW & FORTHCOMING



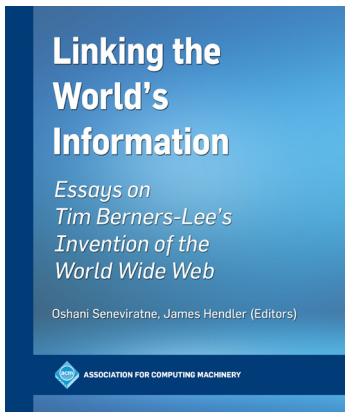
The Societal Impacts of Algorithmic Decision-Making

Manish Raghavan, Massachusetts Institute of Technology

ISBN: 9798400708619 | DOI: 10.1145/3603195 | © 2024 | 366 pages

Paperback: \$49.95 | Hardcover: \$69.95 | eBook: \$39.96

This book demonstrates the need for and the value of interdisciplinary research in addressing important societal challenges associated with the widespread use of algorithmic decision-making. While algorithmic tools have the potential to make decision-making more accurate and transparent, they pose serious challenges to societal interests. For example, they can perpetuate discrimination, cause representational harm, and deny opportunities.



Linking the World's Information

Essays on Tim Berners-Lee's Invention of the World Wide Web

Oshani Seneviratne, Rensselaer Polytechnic Institute

James Hendler, Rensselaer Polytechnic Institute

ISBN: 9798400707940 | DOI: 10.1145/3591366 | © 2023 | 288 pages

Paperback: \$39.95 | Hardcover: \$59.95 | eBook: \$31.96

This book is a compilation of articles on the original ideas of a true visionary and the subsequent research and development work he has led, helping to realize the Web's full potential.



Geospatial Data Science

A Hands-on Approach for Building Geospatial Applications Using Linked Data Technologies

Manolis Koubarakis, National and Kapodistrian University of Athens

ISBN: 9798400707384 | DOI: 10.1145/3581906 | © 2023 | 336 pages

Paperback: \$49.95 | Hardcover: \$69.95 | eBook: \$39.96

This book introduces a new generation of geospatial technologies based on the Semantic Web and the Linked Data paradigms, and shows how data scientists can use them to build environmental applications easily. The book is aimed at researchers and practitioners who would like to know more about this research area and can also be used as a textbook for a last year undergraduate or graduate course.

Science of Software Product Lines

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Themis Palpanas, Kostas Zoumpatianos

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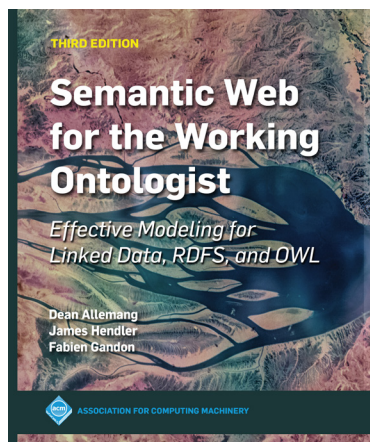
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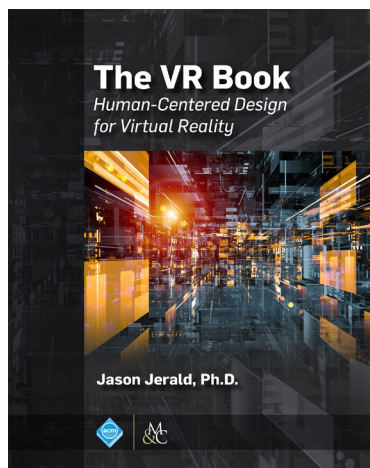
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