



The Computing Universe: A Journey through a Revolution

By Tony Hey, Gyuri Pápay

Download now

Read Online 

The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay

Computers now impact almost every aspect of our lives, from our social interactions to the safety and performance of our cars. How did this happen in such a short time? And this is just the beginning. . . . In this book, Tony Hey and Gyuri Pápay lead us on a journey from the early days of computers in the 1930s to the cutting-edge research of the present day that will shape computing in the coming decades. Along the way, they explain the ideas behind hardware, software, algorithms, Moore's Law, the birth of the personal computer, the Internet and the Web, the Turing Test, Jeopardy's Watson, World of Warcraft, spyware, Google, Facebook, and quantum computing. This book also introduces the fascinating cast of dreamers and inventors who brought these great technological developments into every corner of the modern world. This exciting and accessible introduction will open up the universe of computing to anyone who has ever wondered where his or her smartphone came from.

 [Download The Computing Universe: A Journey through a Revolu ...pdf](#)

 [Read Online The Computing Universe: A Journey through a Revo ...pdf](#)

The Computing Universe: A Journey through a Revolution

By Tony Hey, Gyuri Pápay

The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay

Computers now impact almost every aspect of our lives, from our social interactions to the safety and performance of our cars. How did this happen in such a short time? And this is just the beginning. . . . In this book, Tony Hey and Gyuri Pápay lead us on a journey from the early days of computers in the 1930s to the cutting-edge research of the present day that will shape computing in the coming decades. Along the way, they explain the ideas behind hardware, software, algorithms, Moore's Law, the birth of the personal computer, the Internet and the Web, the Turing Test, Jeopardy's Watson, World of Warcraft, spyware, Google, Facebook, and quantum computing. This book also introduces the fascinating cast of dreamers and inventors who brought these great technological developments into every corner of the modern world. This exciting and accessible introduction will open up the universe of computing to anyone who has ever wondered where his or her smartphone came from.

The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay Bibliography

- Sales Rank: #2160481 in Books
- Published on: 2014-12-08
- Original language: English
- Number of items: 1
- Dimensions: 10.40" h x .90" w x 7.90" l,
- Binding: Hardcover
- 424 pages

 [Download The Computing Universe: A Journey through a Revolu ...pdf](#)

 [Read Online The Computing Universe: A Journey through a Revo ...pdf](#)

Download and Read Free Online **The Computing Universe: A Journey through a Revolution** By **Tony Hey, Gyuri Pápay**

Editorial Review

Review

"Tony Hey has made significant contributions to both physics and computer science and with *The Computing Universe* he and his co-author share the knowledge and history that has inspired us all."
Bill Gates

"In this lavishly illustrated and refreshingly nonlinear introduction to the people, ideas, machines, and codes that ushered us into the age of computation, Tony Hey and Gyuri Pápay have assembled a comprehensive, authoritative, and nonpartisan account of how we got here, combined with much useful insight into how computers work and what may lie ahead. Although filling a conspicuous need for an introduction to computer science for nonscientists, all scientists - including computer scientists - will find this an illuminating book."

George Dyson, author of *Turing's Cathedral: The Origins of the Digital Universe*

"Tony Hey and Gyuri Pápay have produced a comprehensive and wonderfully readable guide to the field. The breadth of topics is amazing - from the early history of Babbage and Turing to topics of today, such as botnets and machine learning, to things on the horizon, including quantum computing and synthetic biology. Even an essay on computers in science fiction! There's something here for everyone, from the interested novice to the seasoned computer professional. Each chapter is full of fascinating facts that lend texture and color to the evolution of this change-the-world field."

Ed Lazowska, Bill and Melinda Gates Chair in Computer Science and Engineering, University of Washington, and former Co-Chair, President's Information Technology Advisory Committee

"Tony Hey and Gyuri Pápay have made a major contribution to computing history. This is a must-read for fans of history in any field, and it will absolutely stand the test of time."

John Hollar, CEO, Computer History Museum

"*The Computing Universe* takes the reader on a panoramic journey through the world of digital computing. Using clear and nontechnical language, it explains the technological breakthroughs, the fundamental concepts, and the future prospects of the digital revolution. It is a work of considerable depth and scholarship, brought to life by many interesting historical vignettes and entertaining anecdotes."

Richard Karp, Turing Award Winner, University of California, Berkeley

"I recommend the book as a highly readable account of the fascinating ideas of computer science and the fascinating people who invented them."

Tony Hoare, Turing Award Winner, Microsoft Research Ltd

"Eloquently presented in a style that assumes little in the way of technical background ... this is a celebration of an astonishingly prolific period of technological development, and a book that could act as a gateway for a new generation of innovators and game-changers."

Times Higher Education

"This is a highly engaging book, which will be greatly valued by both computer scientists and the general reader alike. It fills a longstanding lacuna in the literature, ably covering the history and evolution of computers and computing, leading to the modern subject known as computer science. It shows how closely

the development of computer science is interleaved with our wider understanding of the world we inhabit. The book will undoubtedly prove to be a source of inspiration for future generations of computer and computational scientists."

Peter Coveney, University College London

About the Author

Tony Hey is Vice President of Microsoft Research and has published over 150 research papers on particle physics, computer science and multi-disciplinary eScience. He is the co-author, with Ian Aitchison, of the graduate textbook Gauge Theories in Particle Physics (4th edition) and co-editor of Richard Feynman's Lectures on Computation. He is also co-author of popular science books on quantum mechanics and relativity, The New Quantum Universe and Einstein's Mirror. Most recently, he co-edited The Fourth Paradigm, a book about eScience and the new era of data-intensive science.

Gyuri Pápay is a senior research fellow at the IT Innovations Centre at Southampton University, UK. His main research interests are high-performance computing, event simulation and numerical algorithms.

Users Review

From reader reviews:

Jack Unger:

Reading a publication can be one of a lot of action that everyone in the world enjoys. Do you like reading book consequently. There are a lot of reasons why people enjoy it. First reading a book will give you a lot of new details. When you read a publication you will get new information simply because book is one of numerous ways to share the information or perhaps their idea. Second, reading a book will make a person more imaginative. When you examining a book especially hype book the author will bring you to definitely imagine the story how the character types do it anything. Third, you may share your knowledge to other folks. When you read this The Computing Universe: A Journey through a Revolution, you may tells your family, friends as well as soon about yours guide. Your knowledge can inspire the mediocre, make them reading a e-book.

James Moore:

People live in this new morning of lifestyle always try to and must have the extra time or they will get wide range of stress from both everyday life and work. So , when we ask do people have time, we will say absolutely without a doubt. People is human not a robot. Then we request again, what kind of activity do you have when the spare time coming to anyone of course your answer will unlimited right. Then do you try this one, reading ebooks. It can be your alternative throughout spending your spare time, the actual book you have read is definitely The Computing Universe: A Journey through a Revolution.

Cathryn Walker:

Don't be worry should you be afraid that this book will filled the space in your house, you could have it in e-book way, more simple and reachable. This kind of The Computing Universe: A Journey through a Revolution can give you a lot of buddies because by you checking out this one book you have thing that they don't and make you actually more like an interesting person. This specific book can be one of one step for

you to get success. This guide offer you information that possibly your friend doesn't recognize, by knowing more than various other make you to be great folks. So , why hesitate? Let me have The Computing Universe: A Journey through a Revolution.

Tina Wilson:

You can get this The Computing Universe: A Journey through a Revolution by go to the bookstore or Mall. Merely viewing or reviewing it can to be your solve challenge if you get difficulties for the knowledge. Kinds of this book are various. Not only by simply written or printed but can you enjoy this book through e-book. In the modern era including now, you just looking by your local mobile phone and searching what your problem. Right now, choose your current ways to get more information about your reserve. It is most important to arrange you to ultimately make your knowledge are still revise. Let's try to choose appropriate ways for you.

Download and Read Online The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay #T4UDASYKJN3

Read The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay for online ebook

The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay books to read online.

Online The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay ebook PDF download

The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay Doc

The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay Mobipocket

The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay EPub

T4UDASYKJN3: The Computing Universe: A Journey through a Revolution By Tony Hey, Gyuri Pápay