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Thomas Ottmann
Peter Widmayer

Algorithmen und Datenstrukturen

6. Auflage



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J. Hromkovic



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Algorithmen und Datenstrukturen Thomas Ottmann, Peter Widmayer, 2017-08-04 Dieses bestens eingeführte Lehrbuch wendet sich an Studierende der Informatik in Grund und Hauptstudium. Die einzelnen Algorithmen werden theoretisch fundiert dargestellt, ihre Funktionsweise wird ausführlich anhand vieler Beispiele erläutert. Zusätzlich zur halbformalen Beschreibung werden wichtige Algorithmen in Java formuliert. Das Themenspektrum reicht von Algorithmen zum Suchen und Sortieren über Hashverfahren bis zur Manipulation von Mengen bis hin zu Geometrischen Algorithmen und Graphenalgorithmen. Dabei werden sowohl der Entwurf effizienter Algorithmen und Datenstrukturen als auch die Analyse ihres Verhaltens mittels mathematischer Methoden behandelt. Das Buch eignet sich zur Vorlesungsbegleitung zum Selbststudium und zum Nachschlagen. Eine Vielzahl von Aufgaben dient der weiteren Vertiefung des Gelernten. Java Programme für die wichtigsten Algorithmen und ergänzende Materialien zum Buch werden online bereitgestellt.

Datenstrukturen und Algorithmen Ralf Hartmut Güting, Stefan Dieker, 2013-03-13 Algorithmen und Datenstrukturen sind Thema dieses Buches. Algorithmen arbeiten auf Datenstrukturen und Datenstrukturen enthalten Algorithmen als Komponenten, insofern sind beide untrennbar miteinander verknüpft. In der Einleitung wollen wir diese Begriffe etwas beleuchten und sie einordnen in eine Umgebung, eng damit zusammenhängender Konzepte wie Funktion, Prozedur, Abstrakter Datentyp, Algebra, Typ in einer Programmiersprache, Klasse und Modul. Wie für viele fundamentale Begriffe der Informatik gibt es auch für diese beiden also für Algorithmen und Datenstrukturen nicht eine einzige scharfe allgemein akzeptierte Definition. Vielmehr werden sie in der Praxis in allerlei Bedeutungsschattierungen verwendet. Wenn man Lehrbücher ansieht, findet man durchaus unterschiedliche Definitionen. Das Diagramm in Abbildung 1.1 und spätere Bemerkungen dazu geben also die persönliche Sicht der Autoren wieder: ADT, Abstrakter Datentyp, Mathematik, Funktion, Algebra, Datentyp, Implementierung, ... Thema des Algorithmik I: Algorithmus, Datenstruktur, Buchspezifikation, Implementierung, Programmierung, Prozedur, Funktion, Typ, Modul, Klasse, Methode. Abbildung 1.1: Abstraktionsebenen von Algorithmen und Datenstrukturen. Das Diagramm lässt sich zunächst zerlegen in einen linken und einen rechten Teil. Der linke Teil hat mit Algorithmen, der rechte mit Datenstrukturen zu tun. Weiterhin gibt es drei Abstraktionsebenen. Die abstrakteste Ebene ist die der Mathematik bzw. der formalen Spezifikation von Algorithmen oder Datenstrukturen. Ein Algorithmus realisiert eine Funktion, die entsprechend eine Spezifikation eines Algorithmus darstellt. Ein Algorithmus 2. KAPITEL 1: EINFÜHRUNG stellt seinerseits eine Spezifikation einer zurealisierenden Prozedur oder Funktion oder Methode im Sinne einer Programmiersprache dar. Datenstrukturen und Algorithmen, 2013-03-13 Effiziente Algorithmen und Datenstrukturen bilden ein zentrales Thema der Informatik. Wer programmiert, sollte zu den wichtigsten Problembereichen grundlegende Lösungsverfahren kennen. Er sollte auch in der Lage sein, neue Algorithmen zu entwerfen, ggf. als Kombination bekannter Verfahren, und ihre Kosten in Bezug auf Laufzeit und Speicherplatz zu analysieren. Datenstrukturen organisieren Information.

so da effiziente Algorithmen möglich werden Dieses Buch möchte entsprechende Kenntnisse und Fähigkeiten vermitteln es wendet sich vornehmlich an Studierende der Informatik im Grundstudium Vorausgesetzt werden lediglich Grundkenntnisse der Programmierung wie sie etwa durch Umgang mit einer Sprache wie PASCAL gegeben sind Zum Verständnis werden zwar keine tiefergehenden mathematischen Vorkenntnisse aber doch die Bereitschaft zum Umgang mit einfacher mathematischer Notation benötigt Gelegentlich kommen bei der Analyse von Algorithmen auch etwas anspruchsvollere Berechnungen vor Diese werden sorgfältig erklärt und die benötigten Techniken werden im Rahmen des Buches eingeblendet Grundlage für das Buch waren Vorlesungen zu Datenstrukturen und zu geometrischen Algorithmen die ich an der Universität Dortmund gehalten habe diese wurden später zu einem Kurs Datenstrukturen für die Fernuniversität Hagen ausgearbeitet und dort bereits einige Jahre eingesetzt Der Stoffumfang des Buches umfasst den einer einsemestrigen vierstündigen Vorlesung die in Dortmund und Hagen jeweils im 3 Semester angeboten wird

Algorithmen für Ingenieure Harald Nahrstedt, 2025-09-29 Dieses Buch zeigt dass sich viele anspruchsvolle Fragestellungen im Ingenieurwesen mit bekannten Algorithmen lösen lassen Die technische Realisierung mit MS Office Excel wird anhand brauchbarer nützlicher und praktischer Beispiele gezeigt Durch die Unterschiedlichkeit der vielen Aufgaben und Algorithmen ist das Buch auch ein gutes Nachschlagewerk für erfahrene Anwender innen Programmieren bedeutet die Lösungsmethode eines Problems kennen und zielgerecht anwenden Dazu bedarf es der Einordnung eines Problems wozu ein wenig Mathematik von Nutzen ist und der beispielhaften Umsetzung Das Buch ist das Ergebnis jahrzehntelanger Lehr- und Praxiserfahrung des Autors der sich auf Problemlösungen im Ingenieurbereich spezialisiert hat

A Transdisciplinary Introduction to the World of Cybernetics E. W. Udo Küppers, 2023-10-24 This introduction to the world of cybernetics provides the basics and discusses the most important thought leaders models as well as theories Practical examples from the fields of biology ecology technology society and politics are used to illustrate the theoretical material Questions at the end of the chapters stimulate reflection and the author does not owe the answers A central theme in all cybernetic considerations and a guiding theme of the book are information exchange and communication

Complexity Theory and Cryptology Jörg Rothe, 2005-11-10 Modern cryptology increasingly employs mathematically rigorous concepts and methods from complexity theory Conversely current research topics in complexity theory are often motivated by questions and problems from cryptology This book takes account of this situation and therefore its subject is what may be dubbed cryptocomplexity a kind of symbiosis of these two areas This book is written for undergraduate and graduate students of computer science mathematics and engineering and can be used for courses on complexity theory and cryptology preferably by stressing their interrelation Moreover it may serve as a valuable source for researchers teachers and practitioners working in these fields Starting from scratch it works its way to the frontiers of current research in these fields and provides a detailed overview of their history and their current research topics and challenges

Algorithmen für Ingenieure - realisiert mit Visual Basic Harald Nahrstedt, 2008-08-07 Programmieren

bedeutet die Lösungsmethode eines Problems kennen und zielgerecht anwenden Dazu bedarf es der Einordnung eines Problems wozu ein wenig Mathematik von Nutzen ist und der beispielhaften Umsetzung Der Autor hat anwendungsnah besonders lehrreiche Beispiele zusammengestellt und den Weg zur Lösung von Programmieraufgaben für jeden Ingenieur nachvollziehbar anhand von Visual Basic Programmen aufgezeigt Das Buch ist das Ergebnis mehrjähriger Lehr- und Praxiserfahrung des Autors in den letzten Jahren als Leiter eines Software Hauses das sich auf Ingenieur-Anwendungen spezialisiert hat

Design and Analysis of Randomized Algorithms J. Hromkovic, 2005-10-11 Randomness is a powerful phenomenon that can be harnessed to solve various problems in all areas of computer science Randomized algorithms are often more efficient simpler and surprisingly also more reliable than their deterministic counterparts Computing tasks exist that require billions of years of computer work when solved using the fastest known deterministic algorithms but they can be solved using randomized algorithms in a few minutes with negligible error probabilities Introducing the fascinating world of randomness this book systematically teaches the main algorithm design paradigms foiling an adversary abundance of witnesses fingerprinting amplification and random sampling etc while also providing a deep insight into the nature of success in randomization Taking sufficient time to present motivations and to develop the reader's intuition while being rigorous throughout this text is a very effective and efficient introduction to this exciting field

Grundkurs Informatik Hartmut Ernst, Jochen Schmidt, Gerd Beneken, 2015-03-05 Das Buch bietet eine umfassende und praxisorientierte Einführung in die wesentlichen Grundlagen und Konzepte der Informatik Es umfasst den Stoff der typischerweise in den ersten Semestern eines Informatikstudiums vermittelt wird vertieft Zusammenhänge die darüber hinausgehen und macht sie verständlich Die Themenauswahl orientiert sich an der langfristigen Relevanz für die praktische Anwendung Praxisnah und aktuell werden die Inhalte für Studierende der Informatik und verwandter Studiengänge sowie für im Beruf stehende Praktiker vermittelt Die vorliegende fünfte Auflage wurde grundlegend bearbeitet und aktualisiert

Machine Learning and Data Mining in Pattern Recognition Petra Perner, Azriel Rosenfeld, 2003-08-02

The International Conference on Machine Learning and Data Mining MLDM is the third meeting in a series of biennial events which started in 1999 organized by the Institute of Computer Vision and Applied Computer Sciences IBAI in Leipzig MLDM began as a workshop and is now a conference and has brought the topic of machine learning and data mining to the attention of the research community Seventy-five papers were submitted to the conference this year The program committee worked hard to select the most progressive research in a fair and competent review process which led to the acceptance of 33 papers for presentation at the conference The 33 papers in these proceedings cover a wide variety of topics related to machine learning and data mining The two invited talks deal with learning in case-based reasoning and with mining for structural data The contributed papers can be grouped into nine areas support vector machines pattern discovery decision trees clustering classification and retrieval case-based reasoning Bayesian models and methods association rules and

applications We would like to express our appreciation to the reviewers for their precise and highly professional work. We are grateful to the German Science Foundation for its support of the Eastern European researchers. We appreciate the help and understanding of the editorial staff at Springer Verlag and in particular Alfred Hofmann who supported the publication of these proceedings in the LNAI series. Last but not least we wish to thank all the speakers and participants who contributed to the success of the conference.

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