

New Book Received *

Encyclopedia of Algorithms. Edited by Kao, Ming-Yang, Springer-Verlag GmbH, 2008; 1220 pages, 183 figures, 38 tables; Hard Cover. Price: €309.- / CHF 479.50.- ISBN 978-0-387-30770-1

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The following paragraphs are reproduced from the website of the publisher [1].

The *Encyclopedia of Algorithms* provides a comprehensive set of solutions to important algorithmic problems for students and researchers, including high-impact solutions from the most recent decade.

A must-have for computer scientists, this encyclopedic reference has been edited by Ming Yang Kao, Editor-in-Chief of the top journal in the field, *Algorithmica*.

All of the entries have been written and peer-reviewed by experts in the field. Nearly 400 entries are organized alphabetically by problem, with subentries for distinct solutions.

Extensive cross-references support efficient, user-friendly searches for immediate access to useful information.

This defining reference is published both in print and online. The print publication includes an index of subjects and authors as well as a chronology for locating recent solutions. The online edition supplements this index with hyperlinks as well as including internal hyperlinks to related entries in the text, CrossRef citations, and links to additional significant research.

Open problems, links to downloadable code, experimental results, data sets, and illustrations are included.

Written for: Computer scientists working in a wide range of areas such as Bioinformatics, Cryptography, Data Compression, Medical Informatics, Network and Communication Protocols, Artificial Intelligence, and Pattern Recognition; scholars, students, and professionals who work in fields such as mathematics, statistics, computational biology, economics, finance and stochastics, medical informatics, data mining, industrial engineering, and decision science

Keywords: algorithms; all-pairs shortest paths; approximating; arithmetic coding for data compression; bin packing; communication algorithms; decoding; dynamic tree problems; factoring; fully dynamic connectivity; local alignment; maximum; minimum; optimal; randomized; stable; weighted caching

Table of Contents:

VLSI
Distributed Computing
Parallel Processing
Automated Design
Robotics
Graphics
Data Base Design
Software Tools
Sorting
Searching
Data Structures
Computational Geometry
Linear Programming

* *Editor's Note:* The brief summary and the contents of the books are reported as provided by the author or the publishers. Authors and publishers are encouraged to send review copies of their recent books of potential interest to readers of *Algorithms* to the Publisher (Dr. Shu-Kun Lin, Molecular Diversity Preservation International (MDPI), Kandererstrasse 25, CH - 4057 Basel, Switzerland. Tel. +41 61 683 77 34; Fax: +41 61 302 89 18, E-mail: lin@mdpi.org). Some books will be offered to the scholarly community for the purpose of preparing full-length reviews.

Note

1. The website for this book is <http://www.springer.com/computer/foundations/book/978-0-387-30770-1>.

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