Encyclopedia of Algorithms

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This dynamic reference work provides solutions to vital algorithmic problems for scholars, researchers, practitioners, teachers and students in fields such as computer science, mathematics, statistics, biology, economics, financial software, and medical informatics.

This second edition is broadly expanded, building upon the success of its former edition with more than 450 new and updated entries. These entries are designed to ensure algorithms are presented from growing areas of research such as bioinformatics, combinatorial group testing, differential privacy, enumeration algorithms, game theory, massive data algorithms, modern learning theory, social networks, and VLSI CAD algorithms.

Over 630 entries are organized alphabetically by problem, with subentries allowing for distinct solutions. Each entry includes a description of the basic algorithmic problem; the input and output specifications; key results; examples of applications; citations to key literature, open problems, experimental results, links to data sets and downloadable code.

All entries are peer-reviewed, written by leading experts in the field?and each entry contains links to a summary of the author's research work.

This defining reference is available in both print and online?a dynamic living work with hyperlinks to related entries, cross references citations, and a myriad other valuable URLs.

New and Updated entries include:

Algorithmic Aspects of Distributed Sensor Networks,

Algorithms for Modern Computers

Bioinformatics

Certified Reconstruction and Mesh Generation

Combinatorial Group Testing

Compression of Text and Data Structures

Computational Counting

Computational Economics

Computational Geometry

Differential Privacy

Enumeration Algorithms

Exact Exponential Algorithms

Game Theory

Graph Drawing

Group Testing

Internet Algorithms

Kernels and Compressions

Massive Data Algorithms

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