



Selected Papers on the Analysis of Algorithms

By Donald E. Knuth

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Analysis of Algorithms is the fourth in a series of collected works by world-renowned computer scientist Donald Knuth. This volume is devoted to an important subfield of Computer Science that Knuth founded in the 1960s and still considers his main life's work. This field, to which he gave the name *Analysis of Algorithms*, deals with quantitative studies of computer techniques, leading to methods for understanding and predicting the efficiency of computer programs. *Analysis of Algorithms*, which has grown to be a thriving international discipline, is the unifying theme underlying Knuth's well known book *The Art of Computer Programming*. More than 30 of the fundamental papers that helped to shape this field are reprinted and updated in the present collection, together with historical material that has not previously been published. Although many ideas come and go in the rapidly changing world of computer science, the basic concepts and techniques of algorithmic analysis will remain important as long as computers are used.

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