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Descrizione fisica	1 online resource (97 p.)
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Soggetti	Software engineering Computer science—Mathematics Artificial intelligence Software Engineering Math Applications in Computer Science Artificial Intelligence
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Introduction to Combinatorial Testing -- Mathematical Construction Methods -- One Test at a Time -- The IPO Family -- Evolutionary Computation and Metaheuristics -- Evolutionary Computation and Metaheuristics -- Tools and Benchmarks -- Other Related Topics.
Sommario/riassunto	This book reviews the state-of-the-art in combinatorial testing, with particular emphasis on the automatic generation of test data. It describes the most commonly used approaches in this area - including algebraic construction, greedy methods, evolutionary computation, constraint solving and optimization - and explains major algorithms with examples. In addition, the book lists a number of test generation tools, as well as benchmarks and applications. Addressing a multidisciplinary topic, it will be of particular interest to researchers and professionals in the areas of software testing, combinatorics, constraint solving and evolutionary computation.

