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Titolo	Bounded Incremental Computation [[electronic resource] /] / by G. Ramalingam
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Descrizione fisica	1 online resource (XII, 196 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 1089
Disciplina	004/.01/5114
Soggetti	Algorithms Combinatorics Computers Operating systems (Computers) Algorithm Analysis and Problem Complexity Computation by Abstract Devices Operating Systems
Lingua di pubblicazione	Inglese
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	On incremental algorithms and their complexity -- Terminology and notation -- Incremental algorithms for shortest-path problems -- Generalizations of the shortest-path problem -- An incremental algorithm for a generalization of the shortest-path problem -- Incremental algorithms for the circuit value annotation problem -- Inherently unbounded incremental computation problems -- Incremental algorithms for reducible flowgraphs -- Conclusions.
Sommario/riassunto	Incremental computation concerns the re-computation of output after a change in the input, whereas algorithms and programs usually derive their output directly from their input. This book investigates the concept of incremental computation and dynamic algorithms in general and provides a variety of new results, especially for computational problems from graph theory: the author presents e.g. efficient incremental algorithms for several shortest-path problems as well as incremental algorithms for the circuit value annotation problem and for various computations in reducible flow graphs.

