Record Nr.	UNISA996465508503316
Titolo	Algorithm Engineering [[electronic resource]] : Selected Results and Surveys / / edited by Lasse Kliemann, Peter Sanders
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-49487-2
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (X, 419 p. 68 illus.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 9220
Disciplina	518.1
Soggetti	Algorithms
	Application software
	Artificial intelligence
	Computer science Mathematics
	Discrete mathematics
	Computer and Information Systems Applications
	Artificial Intelligence
	Computer Communication Networks
	Theory of Computation
	Discrete Mathematics in Computer Science
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Engineering a Lightweight and Efficient Local Search SAT Solver Route Planning in Transportation Networks Theoretical Analysis of the k-Means Algorithm - A Survey Recent Advances in Graph Partitioning How to Generate Randomized Roundings with Dependencies and How to Derandomize Them External-Memory State Space Search Algorithm Engineering Aspects of Real-Time Rendering Algorithms Algorithm Engineering in Robust Optimization Clustering Evolving Networks Integrating Sequencing and Scheduling: A Generic Approach with Two Exemplary Industrial Applications Engineering a Bipartite Matching Algorithm in the

1.

	Semi-Streaming Model Engineering Art Galleries.
Sommario/riassunto	Algorithm Engineering is a methodology for algorithmic research that combines theory with implementation and experimentation in order to obtain better algorithms with high practical impact. Traditionally, the study of algorithms was dominated by mathematical (worst-case) analysis. In Algorithm Engineering, algorithms are also implemented and experiments conducted in a systematic way, sometimes resembling the experimentation processes known from fields such as biology, chemistry, or physics. This helps in counteracting an otherwise growing gap between theory and practice.