1.	Record Nr.	UNISA996465583203316
	Titolo	Experimental Algorithms [[electronic resource]] : 7th International Workshop, WEA 2008 Provincetown, MA, USA, May 30 - June 1, 2008 Proceedings / / edited by Catherine C. McGeoch
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2008
	ISBN	3-540-68552-9
	Edizione	[1st ed. 2008.]
	Descrizione fisica	1 online resource (X, 363 p.)
	Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5038
	Disciplina	005.1
	Soggetti	Software engineering Computer programming Numerical analysis Algorithms Artificial intelligence—Data processing Computer science—Mathematics Discrete mathematics Software Engineering Programming Techniques Numerical Analysis Data Science Discrete Mathematics in Computer Science
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Bibliographic Level Mode of Issuance: Monograph
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	Reducing Splaying by Taking Advantage of Working Sets -- Engineering Burstsort: Towards Fast In-Place String Sorting -- Comparing Integer Data Structures for 32 and 64 Bit Keys -- A New Graph-Theoretical Model for k-Dimensional Guillotine-Cutting Problems -- Layer-Free Upward Crossing Minimization -- On the Efficiency of a Local Iterative Algorithm to Compute Delaunay Realizations -- Computing Branch Decomposition of Large Planar Graphs -- Experimental Evaluation of an Exact Algorithm for the Orthogonal Art Gallery Problem -- Computing Multiple Watchman Routes -- Engineering Parallel In-Place Random

Generation of Integer Permutations -- Parallel Partition Revisited -- Broadword Implementation of Rank/Select Queries -- Efficient Implementations of Heuristics for Routing and Wavelength Assignment -- Myopic Distributed Protocols for Singleton and Independent-Resource Congestion Games -- When to Reap and When to Sow – Lowering Peak Usage with Realistic Batteries -- Characterizing the Performance of Flash Memory Storage Devices and Its Impact on Algorithm Design -- Fast Local Search for the Maximum Independent Set Problem -- Optimal University Course Timetables and the Partial Transversal Polytope -- A Basic Toolbox for Constrained Quadratic 0/1 Optimization -- Empirical Investigation of Simplified Step-Size Control in Metaheuristics with a View to Theory -- Reconstructing Phylogenetic Networks with One Recombination -- Exact Algorithms for Cluster Editing: Evaluation and Experiments -- Combining Hierarchical and Goal-Directed Speed-Up Techniques for Dijkstra's Algorithm -- Contraction Hierarchies: Faster and Simpler Hierarchical Routing in Road Networks -- Bidirectional A ??? Search for Time-Dependent Fast Paths -- Multi-criteria Shortest Paths in Time-Dependent Train Networks.

Sommario/riassunto	The Workshop on Experimental Algorithms, WEA, is intended to be an int- national forum for research on the experimental evaluation and engineering of algorithms, as well as in various aspects of computational optimization and its applications. The emphasis of the workshop is the use of experimental me- ods to guide the design, analysis, implementation, and evaluation of algorithms, heuristics, and optimization programs. WEA 2008 was held at the Provincetown Inn, Provincetown, MA, USA, on May 30 – June 1, 2008. This was the seventh workshop of the series, after Rome (2007),Menorca(2006), Santorini(2005),RiodeJaniero(2004),Asconia(2003), and Riga (2001). This volume contains all contributed papers accepted for presentation at the workshop. The 26 contributed papers were selected by the Program Committee onthebasisofatleastthreerefereereports, somecontributedbytrustedexternal referees. In addition to the 26 contributed papers, the program contained two invited talks. Camil Demetrescu, of the University of Rome "La Sapienza," spoke on "Visualization in Algorithm Engineering." David S. Johnson of AT & T Labs – Research, gave a talk on "Bin Packing: From Theory to Experiment and Back Again." We would like to thank the authors who responded to the call for papers, our invited speakers, the members of the ProgramCommittee, the external referees, and the Organizing Committee members for making this workshop possible.