1.	Record Nr.	UNINA9910484287103321
	Titolo	Frontiers in Algorithmics : First Annual International Workshop, FAW 2007, Lanzhou, China, August 1-3, 2007, Proceedings / / edited by Franco P. Preparata, Qizhi Fang
	Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2007
	ISBN	1-281-04281-1
		9786611042813
		3-540-73814-2
	Edizione	[1st ed. 2007.]
	Descrizione fisica	1 online resource (XI, 348 p.)
	Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 4613
	Disciplina	005.1
	Soggetti	Computer programming
		Algorithms
		Computer science - Mathematics
		Discrete mathematics
		Numerical analysis
		Computer graphics
		Bioinformatics
		Programming Techniques
		Discrete Mathematics in Computer Science
		Numerical Analysis
		Computer Graphics
		Computational and Systems Biology
	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	Geometric Algorithms for the Constrained 1-D K-Means Clustering Problems and IMRT Applications -- A Fast Preprocessing Algorithm to Select Gene-Specific Probes of DNA Microarrays -- Approximation Algorithms for a Point-to-Surface Registration Problem in Medical Navigation -- Biometric Digital Signature Key Generation and Cryptography Communication Based on Fingerprint -- New Algorithms for the Spaced Seeds -- Region-Based Selective Encryption for Medical

Imaging -- Extracting Information of Anti-AIDS Inhibitor from the Biological Literature Based on Ontology -- A Novel Biology-Based Reversible Data Hiding Fusion Scheme -- On the Approximation and Smoothed Complexity of Leontief Market Equilibria -- On Coordination Among Multiple Auctions -- The On-Line Rental Problem with Risk and Probabilistic Forecast -- Distributed Planning for the On-Line Dial-a-Ride Problem -- Maximizing the Number of Independent Labels in the Plane -- On the Fractional Chromatic Number of Monotone Self-dual Boolean Functions -- On the Complexity of Approximation Streaming Algorithms for the k-Center Problem -- Scheduling an Unbounded Batch Machine to Minimize Maximum Lateness -- A Non-interleaving Denotational Semantics of Value Passing CCS with Action Refinement -- Constraints Solution for Time Sensitive Security Protocols -- Using Bit Selection to Do Routing Table Lookup -- A New Fuzzy Decision Tree Classification Method for Mining High-Speed Data Streams Based on Binary Search Trees -- Hamiltonian Property on Binary Recursive Networks -- A Performance Guaranteed New Algorithm for Fault-Tolerant Routing in Folded Cubes -- Pathologic Region Detection Algorithm for Prostate Ultrasonic Image Based on PCNN -- A Novel Heuristic Approach for Job Shop Scheduling Problem -- An Efficient Physically-Based Model for Chinese Brush -- A Trigram Statistical Language Model Algorithm for Chinese Word Segmentation -- An O (nm)-Time Certifying Algorithm for Recognizing HHD-Free Graphs -- Easy Problems for Grid-Structured Graphs -- Long Alternating Cycles in Edge-Colored Complete Graphs -- Notes on Fractional (1,f)-Odd Factors of Graphs -- Some New Structural Properties of Shortest 2-Connected Steiner Networks -- The Parameterized Complexity of the Induced Matching Problem in Planar Graphs -- Removable Edges of a Spanning Tree in 3-Connected 3-Regular Graphs.

Sommario/riassunto	FAW 2007, the 1st International "Frontiers in Algorithmics Workshop" took place in Lanzhou, China, August 1-3, 2007. The FAW symposium aims to p- vide a focused forum on current trends in researchon algorithms, discrete str- tures, and their applications, and to bring together international experts at the research frontiers in those areas so as to exchange ideas and to present s- ni'cant new results. In response to the Call for Papers, a total of 141 papers were submitted from 16 countries and regions,of which 33 were accepted. These papers were selected for nine special focus tracks in the areas of bioinform- ics, discrete structures, geometric information processing and communication, games and incentive analysis, graph algorithms, Internet algorithms and pro- cols, parameterized algorithms, design and analysis of heuristics, approximate and online algorithms, and algorithms in medical applications. WewouldliketothanktheConferenceGeneralChair,MaochengCaiandHao Li,andAdvisingCommitteeChair,DannyChen,fortheirleadership, adviceand help on crucial matters concerning the conference. We would like to thank the International Program Committee and the external referees for spending their valuable time and e'ort in the review process. It was a wonderful experience to work with them. Finally, we would like to thank the Organizing Committee, led by Lian Li and Xiaotie Deng, for their contribution to making this conference a success. We would also like to thank our sponsors, the ICCM Laboratory of Lanzhou University, for kindly o'ering the ?nancial and clerical support that made the conference possible and enjoyable.