

1. Record Nr.	UNINA9910484732303321
Titolo	Algorithm Theory – SWAT 2008 : 11th Scandinavian Workshop on Algorithm Theory, Gothenburg, Sweden, July 2-4, 2008, Proceedings / / edited by Joachim Gudmundsson
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2008
ISBN	3-540-69903-1
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (XIII, 438 p.)
Collana	Theoretical Computer Science and General Issues, , 2512-2029 ; ; 5124
Altri autori (Persone)	GudmundssonJoachim
Disciplina	005.73
Soggetti	Artificial intelligence - Data processing Discrete mathematics Algorithms Computer networks Computer science - Mathematics Computer graphics Data Science Discrete Mathematics Computer Communication Networks Discrete Mathematics in Computer Science Computer Graphics
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	Invited Lectures -- A Survey of Results for Deletion Channels and Related Synchronization Channels -- Nash Bargaining Via Flexible Budget Markets -- Contributed Papers -- Simplified Planar Coresets for Data Streams -- Uniquely Represented Data Structures for Computational Geometry -- I/O Efficient Dynamic Data Structures for Longest Prefix Queries -- Guarding Art Galleries: The Extra Cost for Sculptures Is Linear -- Vision-Based Pursuit-Evasion in a Grid -- Angle Optimization in Target Tracking -- Improved Bounds for Wireless Localization -- Bicriteria Approximation Tradeoff for the Node-Cost Budget Problem -- Integer Maximum Flow in Wireless Sensor Networks with Energy Constraint -- The Maximum Energy-Constrained Dynamic

Flow Problem -- Bounded Unpopularity Matchings -- Data Structures with Local Update Operations -- On the Redundancy of Succinct Data Structures -- Confluently Persistent Tries for Efficient Version Control -- A Uniform Approach Towards Succinct Representation of Trees -- An Algorithm for  $L(2,1)$ -Labeling of Trees -- Batch Coloring Flat Graphs and Thin -- Approximating the Interval Constrained Coloring Problem -- A Path Cover Technique for LCAs in Dags -- Boundary Labeling with Octilinear Leaders -- Distributed Disaster Disclosure -- Reoptimization of Steiner Trees -- On the Locality of Extracting a 2-Manifold in -- On Metric Clustering to Minimize the Sum of Radii -- On Covering Problems of Rado -- Packing Rectangles into  $2OPT$  Bins Using Rotations -- A Preemptive Algorithm for Maximizing Disjoint Paths on Trees -- Minimum Distortion Embeddings into a Path of Bipartite Permutation and Threshold Graphs -- On a Special Co-cycle Basis of Graphs -- A Simple Linear Time Algorithm for the Isomorphism Problem on Proper Circular-Arc Graphs -- Spanners of Additively Weighted Point Sets -- The Kinetic Facility Location Problem -- Computing the Greedy Spanner in Near-Quadratic Time -- Parameterized Computational Complexity of Dodgson and Young Elections -- Online Compression Caching -- On Trade-Offs in External-Memory Diameter-Approximation.

---

## Sommario/riassunto

The Scandinavian Workshop on Algorithm Theory (SWAT) is a biennial international conference intended as a forum for researchers in the area of design and analysis of algorithms and data structures.

The first SWAT workshop was held in Halmstad, Sweden, in 1988. Since then it has been held biennially, rotating between the five Nordic countries - Denmark, Finland, Iceland, Norway and Sweden, with the exception of 2006 when it was in Riga. Earlier SWATs were held in Humlebæk, Denmark (2004), Turku, Finland (2002), Bergen, Norway (2000), Stockholm, Sweden (1998), Reykjavik, Iceland (1996), Aarhus, Denmark (1994), Helsinki, Finland (1992), Bergen, Norway (1990) and Halmstad, Sweden (1988). This volume contains the contributed papers presented at the 11th Scandinavian Workshop on Algorithm Theory (SWAT 2008), held in Gothenburg, Sweden, July 2-4, 2008. In addition, the volume also includes abstracts of an invited talk by Michael Mitzenmacher on "A Survey of Results for Deletion Channels and Related Synchronization Channels" and by Vijay V. Vazirani on "Nash Bargaining via Flexible Budget Markets." Papers were solicited for original research on algorithms and data structures in all areas, including but not limited to: approximation algorithms, computational biology, computational geometry, distributed algorithms, external-memory algorithms, graph algorithms, online algorithms, optimization algorithms, parallel algorithms, randomized algorithms, string algorithms and algorithmic game theory. The 36 contributed papers were chosen from 111 submissions. Revised and expanded versions of selected papers will be considered for publication in a special issue of *Algorithmica*. The best paper award was given to Yossi Azar, Uriel Feige and Daniel Glasner for their paper "A Preemptive Algorithm for Maximizing Disjoint Paths on Trees." Each paper was reviewed by at least three referees, and evaluated on the quality, originality and relevance to the symposium.

---