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Nota di contenuto	A Polynomial Time Algorithm for Fair Resource Allocation in Resource Exchange -- A Local Search 4=3-Approximation Algorithm for the Minimum 3-Path Partition Problem -- Efficient Guarding of Polygons and Terrains -- Graph Orientation with Edge Modifications -- Local Coloring: New Observations and New Reductions -- Secure Computation of Any Boolean Function Based on Any Deck of Cards -- A Novel Business Model for Electric Car Sharing -- Constructing Three Completely Independent Spanning Trees in Locally Twisted Cubes-Read-Once Resolutions in Horn Formulas -- Vertex-Critical (P5 ,

banner)-Free Graphs -- An FPTAS for Stochastic Unbounded Min-Knapsack Problem -- The Inapproximability of  $k$ -DominatingSet for Parameterized ACO Circuits -- Mutual Visibility by Robots with Persistent Memory -- Pushing the Online Matrix-vector Conjecture Offline and Identifying Its Easy Cases -- An Improved Approximation Algorithm for the  $k$ -Means Problem with Penalties. .

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Sommario/riassunto

This book constitutes the proceedings of the 13th International Workshop on Frontiers in Algorithmics, FAW 2019, held in Sanya, China, in April/May 2019. The 15 full papers presented in this volume were carefully reviewed and selected from 21 submissions. The workshop provides a focused forum on current trends of research on algorithms, discrete structures, and their applications, and brings together international experts at the research frontiers in these areas to exchange ideas and to present significant new results.

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