

**Adam L. Buchsbaum
Jack Snoeyink (Eds.)**

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Algorithm Engineering and Experimentation

**Third International Workshop, ALENEX 2001
Washington, DC, USA, January 2001
Revised Papers**



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Adam Louis Buchsbaum, Jack Snoeyink

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Algorithm Engineering and Experimentation Michael T. Goodrich, Catherine C. McGeoch, 2014-01-15 *Algorithm Engineering and Experimentation* Buchsbaum, 2014-01-15 Algorithm Engineering and Experimentation Adam L. Buchsbaum, Jack Snoeyink, 2003-06-30 This book constitutes the thoroughly refereed post proceedings of the Third International Workshop on Algorithm Engineering and Experimentation ALENEX 2001 held in Washington DC USA in January 2001 The 15 revised full papers presented together with the abstracts of three invited presentations have gone through two rounds of reviewing and revision and were selected from 31 submissions Among the topics addressed are heuristics for approximation network optimization TSP randomization sorting information retrieval graph computations tree clustering scheduling network algorithms point set computations searching and data mining *Algorithm Engineering and Experimentation* Michael T. Goodrich, Catherine C. McGeoch, 1999-01-01 Symmetric multiprocessors SMPs dominate the high end server market and are currently the primary candidate for constructing large scale multiprocessor systems Yet the design of efficient parallel algorithms for this platform currently poses several challenges The reason for this is that the rapid progress in microprocessor speed has left main memory access as the primary limitation to SMP performance Since memory is the bottleneck simply increasing the number of processors will not necessarily yield better performance Indeed memory bus limitations typically limit the size of SMPs to 16 processors This has at least two implications for the algorithm designer First since there are relatively few processors available on an SMP any parallel algorithm must be competitive with its sequential counterpart with as little as one processor in order to be relevant Second for the parallel algorithm to scale with the number of processors it must be designed with careful attention to minimizing the number and type of main memory accesses In this paper we present a computational model for designing efficient algorithms for symmetric multiprocessors We then use this model to create efficient solutions to two widely different types of problems linked list prefix computations and generalized sorting Both problems are memory intensive but in different ways Whereas generalized sorting algorithms typically require a large number of memory accesses they are usually to contiguous memory locations By contrast prefix computation algorithms typically require a more modest quantity of memory accesses but they are usually to non contiguous memory locations

Algorithm Engineering and Experimentation Adam Louis Buchsbaum, Jack Snoeyink, 2001 **Algorithm Engineering and Experiments** David M. Mount, Clifford Stein, 2014-01-15 *Algorithm Engineering and Experiments* David M. Mount, Clifford Stein, 2002-07-24 <http://inf.puc.rio.br/rwerneck/cs/princeton.edu> Abstract Some of the most widely used constructive heuristics for the Steiner Problem in Graphs are based on algorithms for the Minimum Spanning Tree problem In this paper we examine efficient implementations of heuristics based on the classic algorithms by Prim Kruskal and Boruvka 2023 Proceedings of the Symposium on Algorithm Engineering and Experiments (ALENEX), 2023 The aim of ALENEX is to provide a forum for the presentation of original research in the design implementation and

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Proceedings of the Fifth Workshop on Algorithm Engineering and Experiments Richard E. Ladner, 2003-01-01 The ALENEX workshop provides a forum for the presentation of original research in the implementation and experimental evaluation of algorithms and data structures This volume collects extended versions of the 12 papers that were selected for presentation

17th Workshop on Algorithm Engineering and Experiments 2015 (ALENEX15), 2015

Algorithm Engineering and Experimentation, 2002

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Algorithm Engineering Lasse Kliemann, Peter Sanders, 2016-11-11 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

2017 Proceedings of the Nineteenth Workshop on Algorithm Engineering and Experiments (ALENEX) Sandor Fekete, Vijaya Ramachandran, 2017 [Proceedings of the Sixth Workshop on Algorithm](#)

Engineering and Experiments and the First Workshop on Analytic Algorithmics and Combinatorics ACM Special Interest Group for Algorithms and Computation Theory, Society for Industrial and Applied Mathematics, 2004 The aim of the annual ALENEX workshop is to provide a forum for the presentation of original research in the implementation and experimental evaluation of algorithms and data structures This research presents significant studies in experimental analysis or in the implementation testing and evaluation of algorithms for realistic environments and scenarios The paper presentations address specific applied areas that present unique challenges in their underlying algorithmic problems as well as methodological issues and standards in the context of empirical research on algorithms and data structures analysis of algorithms and associated combinatorial structures The papers study properties of fundamental combinatorial structures that arise in practical computational applications such as permutations trees strings tries and graphs and address the precise analysis of algorithms for processing such structures including average case analysis analysis of moments extrema and distributions and probabilistic analysis of randomized algorithms This proceedings collects extended versions of the 14 papers that were selected for presentation from the ALENEX workshop and 10 papers selected for presentation from the ANALCO workshop *2016 Proceedings of the Eighteenth Workshop on Algorithm Engineering and Experiments (ALENEX)* Michael T. Goodrich, Michael Mitzenmacher, 2016

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