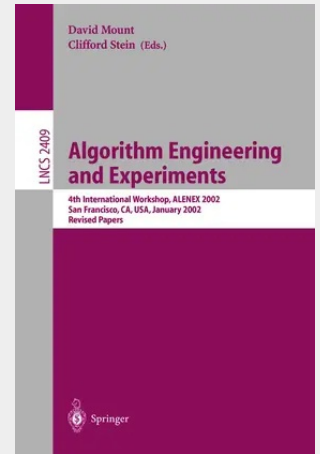


Algorithm Engineering and Experiments

4th International Workshop, ALNEX 2002, San Francisco, CA, USA, January 4-5, 2002, Revised Papers

Johnson(AT&TBellLaboratories) CatherineC. McGeoch(AmherstCollege) BernardM. E. Moret(UniversityofNewMexico;chair) JackSnoeyink(UNC-ChapelHill) TableofContents ALNEX2002 OntheImplementationofMST-BasedHeuristicsfortheSteinerProblem inGraphs. 1 M. PoggideArag~ao,R. F. Werneck(CatholicUniversityof RiodeJaneiro) ATime-SensitiveSystemforBlack-BoxCombinatorialOptimization. 16 V. Phan,P. Sumazin,S. Skiena(SUNYSTonyBrook) ACompressedBreadth-FirstSearchforSatisfiability. 29 D. B. Motter,I. L. Markov(UniversityofMichigan) UsingMulti-levelGraphsforTimetableInformationinRailwaySystems. 43 F. Schulz,D. Wagner(UniversityofKonstanz),C. Zaroliagis (UniversityofPatras) EvaluatingtheLocalRatioAlgorithmforDynamicStorageAllocation. 60 K. Pruhs(UniversityofPittsburgh),E. Wiewiora(Universityof California,SanDiego) An Experimental Study of Prefetching and Caching Algorithms for the WorldWideWeb. 71 M. Curcio,S. Leonardi,A. Vitaletti (Universit'adiRoma"LaSapienza") TheTreewidthofJavaPrograms. 86 J. Gustedt(LORIA&INRIALorraine),O. A. Mæhle,J. A. Telle (UniversityofBergen) PartitioningPlanarGraphswithCostsandWeights. 98 L. Aleksandrov(BulgarianAcademyofSciences,CarletonUniversity), H. Djidjev(UniversityofWarwick),H. Guo,A. Maheshwari (CarletonUniversity) MaintainingDynamicMinimumSpanningTrees:AnExperimentalStudy. 111 G. Cattaneo,P. Faruolo,U. F. Petrillo(Universit'adiSalerno), G. F. Italiano(Universit'adiRoma"TorVergata") ExperimentalEvaluationofaNewShortestPathAlgorithm. 126 S. Pettie,V. Ramachandran,S. Sridhar(UniversityofTexasatAustin) GettingMorefromOut-of-CoreColumnsort. 143 G. Chaudhry,T. H. Cormen(DartmouthCollege) VIII TableofContents TopologicalSweepinDegenerateCases. 155 E. Rafalin,D. Souvaine(TuftsUniversity),I. Streinu(SmithCollege) AccelerationofK-MeansandRelatedClusteringAlgorithms. 166 S. J. Phillips(AT&TLabs-Research) STAR-Tree:AnEfficientSelf-AdjustingIndexforMovingObjects. 178 C. M. Procopiuc(AT&TResearchLab),P. K. Agarwal (DukeUniversity),S. Har-Peled(UniversityofIllinois) AnImprovementonTreeSelectionSort. 194 J. Chen(BellLabsResearch,Beijing) AuthorIndex. 207 OntheImplementationofMST-Based HeuristicsfortheSteinerProblem inGraphs Marcus Poggi de Arag~ao and Renato F. Werneck DepartmentofInformatics,CatholicUniversityofRiodeJaneiro,R. MarquêsdeS~ao Vicente,225,RiodeJaneiro,RJ,22453-900,Brazil. poggi@inf. puc-rio. br,rwerneck@cs. princeton. edu Abstract. Someofthemostwidelyusedconstructiveheuristicsforthe 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 Borůvka.

Includes supplementary material: sn.pub/extras



53,49 €

49,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783540439776

Medium: Buch

ISBN: 978-3-540-43977-6

Verlag: Springer Berlin Heidelberg

Erscheinungstermin: 24.07.2002

Sprache(n): Englisch

Auflage: 2002

Serie: Lecture Notes in Computer Science

Produktform: Kartoniert

Gewicht: 341 g

Seiten: 212

Format (B x H): 155 x 235 mm

