

# Steiner Ratio

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A Proof of the Gilbert-Pollak Conjecture on the Steiner Ratio

D.-Z. Du and F. K. Hwang

Algorithmica 1992

The Steiner Ratio Conjecture of Gilbert-Pollak May Still Be Open

N. Inami, D.H. Kim, Y. Mashiko, K. Shiohama

Algorithmica 2010

# Steiner Ratio

**Mina Razaghpour**



## Steiner Ratio:

*The Steiner Ratio* Dietmar Cieslik, 2013-03-14 Steiner's Problem concerns finding a shortest interconnecting network for a finite set of points in a metric space. A solution must be a tree which is called a Steiner Minimal Tree (SMT) and may contain vertices different from the points which are to be connected. Steiner's Problem is one of the most famous combinatorial geometrical problems but unfortunately it is very difficult in terms of combinatorial structure as well as computational complexity. However, if only a Minimum Spanning Tree (MST) without additional vertices in the interconnecting network is sought, then it is simple to solve. So it is of interest to know what the error is if an MST is constructed instead of an SMT. The worst case for this ratio running over all finite sets is called the Steiner ratio of the space. The book concentrates on investigating the Steiner ratio. The goal is to determine or at least estimate the Steiner ratio for many different metric spaces. The author shows that the description of the Steiner ratio contains many questions from geometry, optimization, and graph theory. Audience: Researchers in network design, applied optimization, and design of algorithms.

*Handbook of Approximation Algorithms and Metaheuristics* Teofilo F. Gonzalez, 2018-05-15. This handbook provides a comprehensive introduction to the underlying theory and methodologies as well as the various applications of approximation algorithms and metaheuristics. Volume 1 of this two-volume set deals primarily with methodologies and traditional applications. It includes restriction relaxation, local ratio approximation schemes, randomization, tabu search, evolutionary computation, local search, neural networks, and other metaheuristics. It also explores multi-objective optimization, reoptimization, sensitivity analysis, and stability. Traditional applications covered include bin packing, multi-dimensional packing, Steiner trees, traveling salesperson scheduling, and related problems. Volume 2 focuses on the contemporary and emerging applications of methodologies to problems in combinatorial optimization, computational geometry, and graphs, as well as in large-scale and emerging application areas. It includes approximation algorithms and heuristics for clustering, networks, sensor and wireless communication, bioinformatics, search streams, virtual communities, and more.

About the Editor: Teofilo F. Gonzalez is a professor emeritus of computer science at the University of California Santa Barbara. He completed his Ph.D. in 1975 from the University of Minnesota. He taught at the University of Oklahoma, the Pennsylvania State University, and the University of Texas at Dallas before joining the UCSB computer science faculty in 1984. He spent sabbatical leaves at the Monterrey Institute of Technology and Higher Education and Utrecht University. He is known for his highly cited pioneering research in the hardness of approximation, for his sublinear and best possible approximation algorithm for  $k$ -tMM clustering, for introducing the open shop scheduling problem, as well as algorithms for its solution that have found applications in numerous research areas, as well as for his research on problems in the areas of job scheduling, graph algorithms, computational geometry, message communication, wire routing, etc.

**Computing in**

**Euclidean Geometry** Dingzhu Du, Frank Hwang, 1992 This book is a collection of surveys and exploratory articles about recent developments in the field of computational Euclidean geometry The topics covered are a history of Euclidean geometry Voronoi diagrams randomized geometric algorithms computational algebra triangulations machine proofs topological designs finite element mesh computer aided geometric designs and steiner trees Each chapter is written by a leading expert in the field and together they provide a clear and authoritative picture of what computational Euclidean geometry is and the direction in which research is going

*The Steiner Ratio for the Obstacle-avoiding Steiner Tree Problem* Mina Razaghpour, 2008 This thesis examines the geometric Steiner tree problem Given a set of points  $P$  in the plane find a shortest tree interconnecting all points in  $P$  with the possibility of adding points outside  $P$  called the Steiner points as additional vertices of the tree The Steiner tree problem has been studied in different metric spaces In this thesis we study the problem in Euclidean and rectilinear metrics One of the most natural heuristics for the Steiner tree problem is to use a minimum spanning tree which can be found in  $O(n \log n)$  time The performance ratio of this heuristic is given by the Steiner ratio which is defined as the minimum possible ratio between the lengths of a minimum Steiner tree and a minimum spanning tree We survey the background literature on the Steiner ratio and study the generalization of the Steiner ratio to the case of obstacles We introduce the concept of an anchored Steiner tree an obstacle avoiding Steiner tree in which the Steiner points are only allowed at obstacle corners We define the obstacle avoiding Steiner ratio as the ratio of the length of an obstacle avoiding minimum Steiner tree to that of an anchored obstacle avoiding minimum Steiner tree We prove that for the rectilinear metric the obstacle avoiding Steiner ratio is equal to the traditional obstacle free Steiner ratio We conjecture that this is also the case for the Euclidean metric and we prove this conjecture for three points and any number of obstacles

**Encyclopedia of Optimization** Christodoulos A. Floudas, Panos M. Pardalos, 2008-09-04 The goal of the Encyclopedia of Optimization is to introduce the reader to a complete set of topics that show the spectrum of research the richness of ideas and the breadth of applications that has come from this field The second edition builds on the success of the former edition with more than 150 completely new entries designed to ensure that the reference addresses recent areas where optimization theories and techniques have advanced Particularly heavy attention resulted in health science and transportation with entries such as Algorithms for Genomics Optimization and Radiotherapy Treatment Design and Crew Scheduling

**Critical Points for the Steiner Ratio Conjecture** J. H. Rubenstein, D. A. Thomas, 1989

**The Steiner Ratio Conjecture for Cocircular Points** J. H. Rubenstein, D. A. Thomas, 1989

**The Steiner Ratio of Metric Spaces** Dietmar Cieslik, 2010

**The Steiner Ratio for Five Points** Raymond Sydney Booth, 1991

**SIAM Journal on Computing** Society for Industrial and Applied Mathematics, 2000

*Algorithms and Computation*, 2005

**An Article about Steiner Ratio Conjecture** Minyi Yue, 2010

*Approximation Algorithms for NP-hard Problems* Dorit S. Hochbaum, 1997 This is the first book to fully address the study of approximation algorithms as a tool for coping with intractable problems With chapters

contributed by leading researchers in the field this book introduces unifying techniques in the analysis of approximation algorithms APPROXIMATION ALGORITHMS FOR NP HARD PROBLEMS is intended for computer scientists and operations researchers interested in specific algorithm implementations as well as design tools for algorithms Among the techniques discussed the use of linear programming primal dual techniques in worst case analysis semidefinite programming computational geometry techniques randomized algorithms average case analysis probabilistically checkable proofs and inapproximability and the Markov Chain Monte Carlo method The text includes a variety of pedagogical features definitions exercises open problems glossary of problems index and notes on how best to use the book

**The Steiner ratio conjecture for six points** ,1989      **Russian Mathematical Surveys** ,2000      *Algorithms and Data Structures* ,2003

**A Simple Proof of the Steiner Ratio Conjecture for Five Points** J. Friedel,P. Widmayer,Institut für Angewandte Informatik und Formale Beschreibungsverfahren, Universität Karlsruhe,1988      *Theory of the Absolute* Gertrude Iona

McCain,1911      Proceedings of the ... Annual ACM-SIAM Symposium on Discrete Algorithms ,1999      **Improved Upper Bounds for the Steiner Ratio** Victoria Garritan,2011

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