

RESEARCH PROBLEMS IN DISCRETE GEOMETRY

more interesting set of independent problems is a collection of open problems, most of which are quite simple to state. The number of problems is roughly 100, and 40-50 of them have been solved.

Открытые Проблемы
Дискретной Геометрии

Более интересные
независимые
задачи, большинство
из которых можно
сформулировать
самостоятельно. Число
задач приблизительно
равно 100, из которых
около 40-50 решены.

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IN
DISCRETE
GEOMETRY

PETER BRASS
WILLIAM MOSER
JÁNOS PACH

Belorusskij nauchno-tekhnicheskij
zurnal na matematiku



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Research Problems In Discrete Geometry

**Luca Brandolini, Leonardo Colzani, Alex
Iosevich, Giancarlo Travaglini**

Research Problems In Discrete Geometry:

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Volumetric Discrete Geometry Karoly Bezdek,Zsolt Langi,2019-04-24 Volume of geometric objects plays an important role in applied and theoretical mathematics This is particularly true in the relatively new branch of discrete geometry where volume is often used to find new topics for research Volumetric Discrete Geometry demonstrates the recent aspects of volume introduces problems related to it and presents methods to apply it to other geometric problems Part I of the text consists of survey chapters of selected topics on volume and is suitable for advanced undergraduate students Part II has chapters of selected proofs of theorems stated in Part I and is oriented for graduate level students wishing to learn about the latest research on the topic Chapters can be studied independently from each other Provides a list of 30 open problems to promote research Features more than 60 research exercises Ideally suited for researchers and students of combinatorics geometry and discrete mathematics

[Surveys on Discrete and Computational Geometry](#) Jacob E. Goodman,2008 This volume contains nineteen survey papers describing the state of current research in discrete and computational geometry as well as a set of open problems presented at the 2006 AMS IMS SIAM Summer

Research Conference Discrete and Computational Geometry Twenty Years Later held in Snowbird Utah in June 2006 Topics surveyed include metric graph theory lattice polytopes the combinatorial complexity of unions of geometric objects line and pseudoline arrangements algorithmic semialgebraic geometry persistent homology unfolding polyhedra pseudo

triangulations nonlinear computational geometry k sets and the computational complexity of convex bodies [Applications of Discrete Mathematics](#) Richard D. Ringeisen,Fred S. Roberts,1988-01-01

[Lectures on Sphere Arrangements – the Discrete Geometric Side](#) Károly Bezdek,2013-08-04 This monograph gives a short introduction to the relevant modern parts of discrete geometry in addition to leading the reader to the frontiers of geometric research on sphere arrangements The

readership is aimed at advanced undergraduate and early graduate students as well as interested researchers It contains more than 40 open research problems ideal for graduate students and researchers in mathematics and computer science

Additionally this book may be considered ideal for a one semester advanced undergraduate or graduate level course The core part of this book is based on three lectures given by the author at the Fields Institute during the thematic program on

Discrete Geometry and Applications and contains four core topics The first two topics surround active areas that have been outstanding from the birth of discrete geometry namely dense sphere packings and tilings Sphere packings and tilings have a very strong connection to number theory coding groups and mathematical programming Extending the tradition of studying packings of spheres is the investigation of the monotonicity of volume under contractions of arbitrary arrangements of spheres The third major topic of this book can be found under the sections on ball polyhedra that study the possibility of extending the theory of convex polytopes to the family of intersections of congruent balls This section of the text is connected in many ways to the above mentioned major topics and it is also connected to some other important research areas as the one on coverings by planks with close ties to geometric analysis This fourth core topic is discussed under covering balls by cylinders

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Handbook of Combinatorics R.L. Graham, 1995-12-11 Handbook of Combinatorics **Towards a Theory of Geometric Graphs** János Pach, 2004 This volume contains a collection of papers on graph theory with the common theme that all the graph theoretical problems addressed are approached from a geometrical rather than an abstract point of view This is no accident the editor selected these papers not as a comprehensive literature review

Algorithms and Complexity Irene Finocchi, Loukas Georgiadis, 2025-05-17 The two volume set LNCS 15679 and 15680 constitutes the refereed proceedings of the 14th International Conference on Algorithms and Complexity CIAC 2025 held in Rome Italy during June 10–12 2025 The 44 full papers included in these proceedings were carefully reviewed and selected from 110 submissions They focus on all aspects of important venue for researchers working on computational complexity and the design analysis experimentation and application of efficient algorithms and data structures

Handbook of Combinatorics Volume 1 Ronald L. Graham, Martin Grötschel, László Lovász, 1995-12-11 Handbook of Combinatorics Volume 1 focuses on basic methods paradigms results issues and trends across the broad spectrum of combinatorics The selection first elaborates on the basic graph theory connectivity and network flows and matchings and extensions Discussions focus on stable sets and claw free graphs nonbipartite matching multicommodity flows and disjoint paths minimum cost circulations and flows special proof techniques for paths and circuits and Hamilton paths and circuits in

digraphs The manuscript then examines coloring stable sets and perfect graphs and embeddings and minors The book takes a look at random graphs hypergraphs partially ordered sets and matroids Topics include geometric lattices structural properties linear extensions and correlation dimension and posets of bounded degree hypergraphs and set systems stability transversals and matchings and phase transition The manuscript also reviews the combinatorial number theory point lattices convex polytopes and related complexes and extremal problems in combinatorial geometry The selection is a valuable reference for researchers interested in combinatorics

Fourier Analysis and Convexity Luca Brandolini, Leonardo Colzani,Alex Iosevich,Giancarlo Travaglini,2011-04-27

Over the course of the last century the systematic exploration of the relationship between Fourier analysis and other branches of mathematics has lead to important advances in geometry number theory and analysis stimulated in part by Hurwitz's proof of the isoperimetric inequality using Fourier series This unified self contained book presents both a broad overview of Fourier analysis and convexity as well as an intricate look at applications in some specific settings it will be useful to graduate students and researchers in harmonic analysis convex geometry functional analysis number theory computer science and combinatorial analysis A wide audience will benefit from the careful demonstration of how Fourier analysis is used to distill the essence of many mathematical problems in a natural and elegant way

Automorphism Groups of Maps, Surfaces and Smarandache Geometries (second edition), graduate text book in mathematics Linfan Mao,2011

New Trends in Applied Harmonic Analysis, Volume 2 Akram Aldroubi,Carlos Cabrelli,Stéphane Jaffard,Ursula Molter,2019-11-26 This contributed volume collects papers based on courses and talks given at the 2017 CIMPA school Harmonic Analysis Geometric Measure Theory and Applications which took place at the University of Buenos Aires in August 2017 These articles highlight recent breakthroughs in both harmonic analysis and geometric measure theory particularly focusing on their impact on image and signal processing The wide range of expertise present in these articles will help readers contextualize how these breakthroughs have been instrumental in resolving deep theoretical problems Some topics covered include Gabor frames Falconer distance problem Hausdorff dimension Sparse inequalities Fractional Brownian motion Fourier analysis in geometric measure theory This volume is ideal for applied and pure mathematicians interested in the areas of image and signal processing Electrical engineers and statisticians studying these fields will also find this to be a valuable resource

Thirty Essays on Geometric Graph Theory János

Pach,2012-12-15 In many applications of graph theory graphs are regarded as geometric objects drawn in the plane or in some other surface The traditional methods of abstract graph theory are often incapable of providing satisfactory answers to questions arising in such applications In the past couple of decades many powerful new combinatorial and topological techniques have been developed to tackle these problems Today geometric graph theory is a burgeoning field with many striking results and appealing open questions This contributed volume contains thirty original survey and research papers on important recent developments in geometric graph theory The contributions were thoroughly reviewed and written by

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