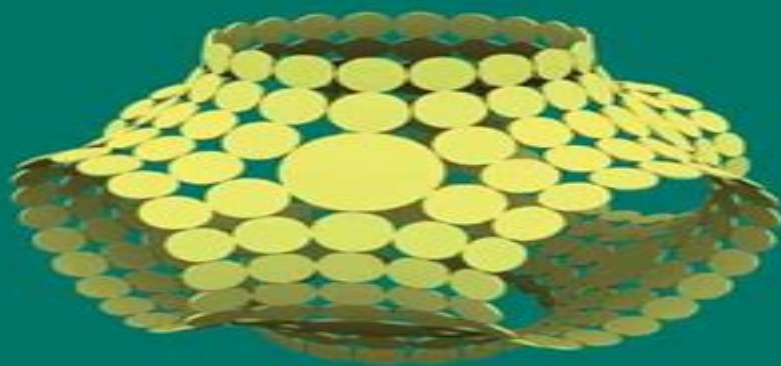




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# Discrete Differential Geometry



Alexander I. Bobenko  
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Günter M. Ziegler  
Editors

# Discrete Differential Geometry Oberwolfach Seminars

**Alexander I. Bobenko**



## **Discrete Differential Geometry Oberwolfach Seminars:**

Discrete Differential Geometry Alexander I. Bobenko, Yuri B. Suris, 2023-09-14 An emerging field of discrete differential geometry aims at the development of discrete equivalents of notions and methods of classical differential geometry The latter appears as a limit of a refinement of the discretization Current interest in discrete differential geometry derives not only from its importance in pure mathematics but also from its applications in computer graphics theoretical physics architecture and numerics Rather unexpectedly the very basic structures of discrete differential geometry turn out to be related to the theory of integrable systems One of the main goals of this book is to reveal this integrable structure of discrete differential geometry For a given smooth geometry one can suggest many different discretizations Which one is the best This book answers this question by providing fundamental discretization principles and applying them to numerous concrete problems It turns out that intelligent theoretical discretizations are distinguished also by their good performance in applications The intended audience of this book is threefold It is a textbook on discrete differential geometry and integrable systems suitable for a one semester graduate course On the other hand it is addressed to specialists in geometry and mathematical physics It reflects the recent progress in discrete differential geometry and contains many original results The third group of readers at which this book is targeted is formed by specialists in geometry processing computer graphics architectural design numerical simulations and animation They may find here answers to the question How do we discretize differential geometry arising in their specific field Prerequisites for reading this book include standard undergraduate background calculus and linear algebra No knowledge of differential geometry is expected although some familiarity with curves and surfaces can be helpful

**Discrete Differential Geometry** Alexander I. Bobenko, 2008-01-17 Presents a collection of essays that cover the main topics of the 2004 Oberwolfach Seminar which focused on discrete differential geometry *Advances in Discrete Differential Geometry* Alexander I. Bobenko, 2016-08-12 This is one of the first books on a newly emerging field of discrete differential geometry and an excellent way to access this exciting area It surveys the fascinating connections between discrete models in differential geometry and complex analysis integrable systems and applications in computer graphics The authors take a closer look at discrete models in differential geometry and dynamical systems Their curves are polygonal surfaces are made from triangles and quadrilaterals and time is discrete Nevertheless the difference between the corresponding smooth curves surfaces and classical dynamical systems with continuous time can hardly be seen This is the paradigm of structure preserving discretizations Current advances in this field are stimulated to a large extent by its relevance for computer graphics and mathematical physics This book is written by specialists working together on a common research project It is about differential geometry and dynamical systems smooth and discrete theories and on pure mathematics and its practical applications The interaction of these facets is demonstrated by concrete examples including discrete conformal mappings discrete complex analysis discrete curvatures and special surfaces discrete integrable systems

conformal texture mappings in computer graphics and free form architecture This richly illustrated book will convince readers that this new branch of mathematics is both beautiful and useful It will appeal to graduate students and researchers in differential geometry complex analysis mathematical physics numerical methods discrete geometry as well as computer graphics and geometry processing

**Handbook of Variational Methods for Nonlinear Geometric Data** Philipp Grohs,Martin Holler,Andreas Weinmann,2020-04-03 This book covers different current research directions in the context of variational methods for non linear geometric data Each chapter is authored by leading experts in the respective discipline and provides an introduction an overview and a description of the current state of the art Non linear geometric data arises in various applications in science and engineering Examples of nonlinear data spaces are diverse and include for instance nonlinear spaces of matrices spaces of curves shapes as well as manifolds of probability measures Applications can be found in biology medicine product engineering geography and computer vision for instance Variational methods on the other hand have evolved to being amongst the most powerful tools for applied mathematics They involve techniques from various branches of mathematics such as statistics modeling optimization numerical mathematics and analysis The vast majority of research on variational methods however is focused on data in linear spaces Variational methods for non linear data is currently an emerging research topic As a result and since such methods involve various branches of mathematics there is a plethora of different recent approaches dealing with different aspects of variational methods for nonlinear geometric data Research results are rather scattered and appear in journals of different mathematical communities The main purpose of the book is to account for that by providing for the first time a comprehensive collection of different research directions and existing approaches in this context It is organized in a way that leading researchers from the different fields provide an introductory overview of recent research directions in their respective discipline As such the book is a unique reference work for both newcomers in the field of variational methods for non linear geometric data as well as for established experts that aim at to exploit new research directions or collaborations Chapter 9 of this book is available open access under a CC BY 4.0 license at [link.springer.com](https://link.springer.com)

**Modern Trends in Hypercomplex Analysis** Swanhild Bernstein,Uwe Kähler,Irene Sabadini,Franciscus Sommen,2016-11-21 This book contains a selection of papers presented at the session Quaternionic and Clifford Analysis at the 10th ISAAC Congress held in Macau in August 2015 The covered topics represent the state of the art as well as new trends in hypercomplex analysis and its applications

**Lectures on Algebraic Statistics** Mathias Drton,Bernd Sturmfels,Seth Sullivant,2009-04-25 How does an algebraic geometer studying secant varieties further the understanding of hypothesis tests in statistics Why would a statistician working on factor analysis raise open problems about determinantal varieties Connections of this type are at the heart of the new field of algebraic statistics In this field mathematicians and statisticians come together to solve statistical inference problems using concepts from algebraic geometry as well as related computational and combinatorial techniques The goal of these lectures is to introduce

newcomers from the different camps to algebraic statistics The introduction will be centered around the following three observations many important statistical models correspond to algebraic or semi algebraic sets of parameters the geometry of these parameter spaces determines the behaviour of widely used statistical inference procedures computational algebraic geometry can be used to study parameter spaces and other features of statistical models      **Advances in Robot**

**Kinematics 2024** Jadran Lenarčič, Manfred Husty, 2024-07-02 This book is aimed at researchers specializing in the kinematics of robot mechanisms as well as at doctoral students in guiding their research work A spectrum of the latest achievements in kinematics analysis modelling simulation design and control is covered New theories and methods are applied to serial parallel and cable driven mechanisms for use in industrial or service robotics The systems range from being less than fully mobile to kinematically redundant and over constrained Forty nine papers are included arranged in seven chapters as presented at the 19th Symposium on Advances in Robot Kinematics 2024 The symposium which has been held since 1988 was organized this time in Ljubljana Slovenia where it began thirty six years ago The papers have been rigorously selected based on peer review and are arranged in chapters randomly as is the prevailing tradition of these symposia In doing so we aim to give equal emphasis to each of these achievements      **Growth Theory of Subharmonic Functions**

Vladimir S. Azarin, 2008-10-20 In this book an account of the growth theory of subharmonic functions is given which is directed towards its applications to entire functions of one and several complex variables The presentation aims at converting the noble art of constructing an entire function with prescribed asymptotic behaviour to a handicraft For this one should only construct the limit set that describes the asymptotic behaviour of the entire function All necessary material is developed within the book hence it will be most useful as a reference book for the construction of entire functions

Classification of Higher Dimensional Algebraic Varieties Christopher D. Hacon, Sándor Kovács, 2011-02-02 Higher Dimensional Algebraic Geometry presents recent advances in the classification of complex projective varieties Recent results in the minimal model program are discussed and an introduction to the theory of moduli spaces is presented      Comptes Rendus - Interface Graphique, 2013      Journal of the Indian Institute of Science Indian Institute of Science, Bangalore, 2007

**Differential Geometry and Its Applications** Neda Bokan, 1989      *An Excursion Through Discrete Differential Geometry* American Mathematical Society. Short Course, Discrete Differential Geometry, 2020-09-02 Discrete Differential Geometry DDG is an emerging discipline at the boundary between mathematics and computer science It aims to translate concepts from classical differential geometry into a language that is purely finite and discrete and can hence be used by algorithms to reason about geometric data In contrast to standard numerical approximation the central philosophy of DDG is to faithfully and exactly preserve key invariants of geometric objects at the discrete level This process of translation from smooth to discrete helps to both illuminate the fundamental meaning behind geometric ideas and provide useful algorithmic guarantees This volume is based on lectures delivered at the 2018 AMS Short Course Discrete Differential Geometry held

January 8 9 2018 in San Diego California The papers in this volume illustrate the principles of DDG via several recent topics  
discrete nets discrete differential operators discrete mappings discrete conformal geometry and discrete optimal transport

**Notices of the American Mathematical Society** American Mathematical Society,1994     Mathematical Reviews  
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**Mathematical Monthly** ,1980

The Top Books of the Year Discrete Differential Geometry Oberwolfach Seminars The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have enthralled audiences this year. Discrete Differential Geometry Oberwolfach Seminars : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is an exceptional and suspenseful novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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