

Discrete Differential Geometry

Integrable Structure

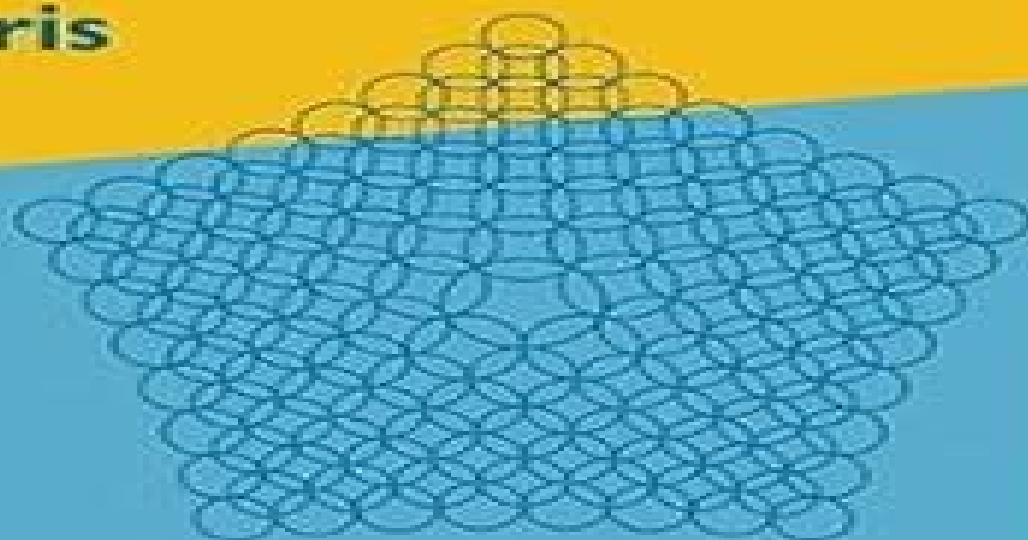
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Graduate Studies
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Volume 98



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Discrete Differential Geometry Graduate Studies In Mathematics

Dominik Volland



Discrete Differential Geometry Graduate Studies In Mathematics:

Discrete Differential Geometry Alexander I. Bobenko TU Berlin, Peter Schröder, John M. Sullivan, Günter M. Ziegler, 2008-03-27 This is the first book on a newly emerging field of discrete differential geometry providing an excellent way to access this exciting area It provides discrete equivalents of the geometric notions and methods of differential geometry such as notions of curvature and integrability for polyhedral surfaces The carefully edited collection of essays gives a lively multi faceted introduction to this emerging field

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

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

Foundations of Arithmetic Differential Geometry

Alexandru Buium,2023-11-20 The aim of this book is to introduce and develop an arithmetic analogue of classical differential geometry In this new geometry the ring of integers plays the role of a ring of functions on an infinite dimensional manifold The role of coordinate functions on this manifold is played by the prime numbers The role of partial derivatives of functions with respect to the coordinates is played by the Fermat quotients of integers with respect to the primes The role of metrics is played by symmetric matrices with integer coefficients The role of connections respectively curvature attached to metrics is played by certain adelic respectively global objects attached to the corresponding matrices One of the main conclusions of the theory is that the spectrum of the integers is intrinsically curved the study of this curvature is then the main task of the theory The book follows and builds upon a series of recent research papers A significant part of the material has never been published before

Integrable Systems and Algebraic Geometry: Volume 1 Ron Donagi,Tony Shaska,2020-04-02 Created as a celebration of mathematical pioneer Emma Previato this comprehensive book highlights the connections between algebraic geometry and integrable systems differential equations mathematical physics and many other areas The authors many of whom have been at the forefront of research into these topics for the last decades have all been influenced by Previato s research as her collaborators students or colleagues The diverse articles in the book demonstrate the wide scope of Previato s work and the inclusion of several survey and introductory articles makes the text accessible to graduate students and non experts as well as researchers This first volume covers a wide range of areas related to integrable systems often emphasizing the deep connections with algebraic geometry Common themes include theta functions and Abelian varieties Lax equations integrable hierarchies Hamiltonian flows and difference operators These powerful tools are applied to spinning top Hitchin Painleve and many other notable special equations

Integrable Systems and Algebraic Geometry Ron Donagi,Tony Shaska,2020-04-02 A collection of articles discussing integrable systems and algebraic geometry from leading researchers in the field

Lorentzian Geometry and Related Topics María A. Cañadas-Pinedo,José Luis Flores,Francisco J. Palomo,2018-03-06 This volume contains a collection of research papers and useful surveys by experts in the field which provide a representative picture of the current status of this fascinating area Based on contributions from the VIII International Meeting on Lorentzian Geometry held at the University of M laga Spain this volume covers topics such as distinguished maximal trapped null spacelike constant mean curvature umbilical submanifolds causal completion of spacetimes stationary regions and horizons in spacetimes solitons in semi Riemannian manifolds relation between Lorentzian and Finslerian geometries and the oscillator spacetime In the last decades Lorentzian geometry has experienced a significant impulse which has transformed it from just a mathematical tool for general relativity to a consolidated branch of differential geometry interesting in and of itself Nowadays this field provides a framework where many different mathematical techniques arise with applications to multiple parts of mathematics and physics This book is addressed to differential geometers mathematical physicists and relativists and graduate students interested in the field

Symmetries and

Integrability of Difference Equations Decio Levi, Raphaël Rebelo, Pavel Winternitz, 2017-06-30 This book shows how Lie group and integrability techniques originally developed for differential equations have been adapted to the case of difference equations. Difference equations are playing an increasingly important role in the natural sciences. Indeed, many phenomena are inherently discrete and thus naturally described by difference equations. More fundamentally, in subatomic physics, space-time may actually be discrete. Differential equations would then just be approximations of more basic discrete ones. Moreover, when using differential equations to analyze continuous processes, it is often necessary to resort to numerical methods. This always involves a discretization of the differential equations involved, thus replacing them by difference ones. Each of the nine peer-reviewed chapters in this volume serves as a self-contained treatment of a topic containing introductory material as well as the latest research results and exercises. Each chapter is presented by one or more early career researchers in the specific field of their expertise and is in turn written for early career researchers. As a survey of the current state of the art, this book will serve as a valuable reference and is particularly well suited as an introduction to the field of symmetries and integrability of difference equations. Therefore, the book will be welcomed by advanced undergraduate and graduate students as well as by more advanced researchers.

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 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 **A Discrete Hilbert Transform with Circle Packings** Dominik Volland,2017-12-01 Dominik Volland studies the construction of a discrete counterpart to the Hilbert transform in the realm of a nonlinear discrete complex analysis given by circle packings The Hilbert transform is closely related to Riemann Hilbert problems which have been studied in the framework of circle packings by E Wegert and co workers since 2009 The author demonstrates that the discrete Hilbert transform is well defined in this framework by proving a conjecture on discrete problems formulated by Wegert Moreover he illustrates its properties by carefully chosen numerical examples **Dynamical Systems, Number Theory and Applications** Thomas Hagen,Florian Rupp,Jürgen Scheurle,2016 This volume consists of a selection of research type articles on dynamical systems evolution equations analytic number theory and closely related topics A strong emphasis is on a fair balance between theoretical and more applied work thus spanning the chasm between abstract insight and actual application Several of the articles are expected to be in the intersection of dynamical systems theory and number theory One article will likely relate the topics presented to the academic achievements and interests of Prof Leutbecher and shed light on common threads among all the contributions *Discrete Differential Geometry* Alexander I. Bobenko,Yuri B. Suris,1900

Minimal Surfaces: Integrable Systems and Visualisation Tim Hoffmann,Martin Kilian,Katrin Leschke,Francisco Martin,2021-05-06 This book collects original peer reviewed contributions to the conferences organised by the international research network Minimal surfaces Integrable Systems and Visualization financed by the Leverhulme Trust The conferences took place in Cork Granada Munich and Leicester between 2016 and 2019 Within the theme of the network the presented articles cover a broad range of topics and explore exciting links between problems related to the mean curvature of surfaces in homogeneous 3 manifolds like minimal surfaces CMC surfaces and mean curvature flows integrable systems and visualisation Combining research and overview articles by prominent international researchers the book offers a valuable resource for both researchers and students who are interested in this research area **Mathematical Physics: Classical Mechanics** Andreas Knauf,2018-02-24 As a limit theory of quantum mechanics classical dynamics comprises a large variety of phenomena from computable integrable to chaotic mixing behavior This book presents the KAM Kolmogorov Arnold Moser theory and asymptotic completeness in classical scattering Including a wealth of fascinating examples in physics it offers not only an excellent selection of basic topics but also an introduction to a number of current areas of research in the field of classical mechanics Thanks to the didactic structure and concise appendices the presentation is self contained and requires only knowledge of the basic courses in mathematics The book addresses the needs of graduate and senior undergraduate students in mathematics and physics and of researchers interested in approaching classical mechanics from a modern point of view **Proceedings Of The International Congress Of Mathematicians 2010 (Icm 2010) (In 4 Volumes) - Vol. I: Plenary Lectures And Ceremonies, Vols. Ii-iv: Invited Lectures** Rajendra Bhatia,Arup Pal,G Rangarajan,V Srinivas,M Vanninathan,2011-06-06 ICM 2010 proceedings comprises a four volume set containing articles based on plenary lectures

and invited section lectures the Abel and Noether lectures as well as contributions based on lectures delivered by the recipients of the Fields Medal the Nevanlinna and Chern Prizes The first volume will also contain the speeches at the opening and closing ceremonies and other highlights of the Congress Sixteenth International Congress on Mathematical Physics Pavel Exner,2010 The International Congress on Mathematical Physics is the flagship conference in this exciting field Convening every three years it gives a survey on the progress achieved in all branches of mathematical physics It also provides a superb platform to discuss challenges and new ideas The present volume collects material from the XVth ICMF which was held in Prague August 2009 and features most of the plenary lectures and invited lectures in topical sessions as well as information on other parts of the congress program This volume provides a broad coverage of the field of mathematical physics from dominantly mathematical subjects to particle physics condensed matter and application of mathematical physics methods in various areas such as astrophysics and ecology amongst others **Tau Functions and their Applications** John Harnad,Ferenc Balogh,2021-02-04 A thorough introduction to tau functions from the basics through to the most recent results with applications in mathematical physics **Proceedings of the International Congress of Mathematicians 2010 (icm 2010) (in 4 Volumes) - Vol. I: Plenary Lectures and Ceremonies, Vols. II-IV: Invited Lectures** ,2011 The Universe of Quadrics Boris Odehnal,Hellmuth Stachel,Georg Glaeser,2020-04-21 The Universe of Quadrics This text presents the theory of quadrics in a modern form It builds on the previously published book The Universe of Conics including many novel results that are not easily accessible elsewhere As in the conics book the approach combines synthetic and analytic methods to derive projective affine and metrical properties covering both Euclidean and non Euclidean geometries While the history of conics is more than two thousand years old the theory of quadrics began to develop approximately three hundred years ago Quadrics play a fundamental role in numerous fields of mathematics and physics their applications ranging from mechanical engineering architecture astronomy and design to computer graphics This text will be invaluable to undergraduate and graduate mathematics students those in adjacent fields of study and anyone with a deeper interest in geometry Complemented with about three hundred fifty figures and photographs this innovative text will enhance your understanding of projective geometry linear algebra mechanics and differential geometry with careful exposition and many illustrative exercises **Reshetnyak's Theory of Subharmonic Metrics** François Fillastre,Dmitriy Slutskiy,2023-09-15 Despite the fundamental role played by Reshetnyak's work in the theory of surfaces of bounded integral curvature the proofs of his results were only available in his original articles written in Russian and often hard to find This situation used to be a serious problem for experts in the field This book provides English translations of the full set of Reshetnyak's articles on the subject Together with the companion articles this book provides an accessible and comprehensive reference for the subject In turn this book should concern any researcher confirmed or not interested in or active in the field of bounded integral curvature surfaces or more generally interested in surface geometry and geometric

analysis Due to the analytic nature of Reshetnyak's approach it appears that his articles are very accessible for a modern audience comparing to the works using a more synthetic approach These articles of Reshetnyak concern more precisely the work carried by the author following the completion of his PhD thesis under the supervision of A D Alexandrov Over the period from the 1940's to the 1960's the Leningrad School of Geometry developed a theory of the metric geometry of surfaces similar to the classical theory of Riemannian surfaces but with lower regularity allowing greater flexibility Let us mention A D Alexandrov Y D Burago and V A Zalgaller The types of surfaces studied by this school are now known as surfaces of bounded curvature Particular cases are that of surfaces with curvature bounded from above or below the study of which gained special attention after the works of M Gromov and G Perelman Nowadays these concepts have been generalized to higher dimensions to graphs and so on and the study of metrics of weak regularity remains an active and challenging field Reshetnyak developed an alternative and analytic approach to surfaces of bounded integral curvature The underlying idea is based on the theorem of Gauss which states that every Riemannian surface is locally conformal to Euclidean space Reshetnyak thus studied generalized metrics which are locally conformal to the Euclidean metric with conformal factor given by the logarithm of the difference between two subharmonic functions on the plane Reshetnyak's condition appears to provide the correct regularity required to generalize classical concepts such as measure of curvature integral geodesic curvature for curves and so on and in turn to recover surfaces of bounded curvature Chapter No 7 Chapter No 8 Chapter No 12 and Chapter No 13 are available open access under Creative Commons Attribution NonCommercial 4.0 International License via link.springer.com

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