

Detlef Gromoll
Gerard Walschap

Metric Foliations and Curvature

Metric Foliations And Curvature Progress In Mathematics

Marcos M. Alexandrino, Renato G. Bettiol



Metric Foliations And Curvature Progress In Mathematics:

Metric Foliations and Curvature Detlef Gromoll, Gerard Walschap, 2009-03-28 In the past three or four decades there has been increasing realization that metric foliations play a key role in understanding the structure of Riemannian manifolds particularly those with positive or nonnegative sectional curvature In fact all known such spaces are constructed from only a representative handful by means of metric fibrations or deformations thereof This text is an attempt to document some of these constructions many of which have only appeared in journal form The emphasis here is less on the fibration itself and more on how to use it to either construct or understand a metric with curvature of fixed sign on a given space **Geometry and Topology of Manifolds** Akito Futaki, Reiko Miyaoka, Zizhou Tang, Weiping Zhang, 2016-06-03 Since the year 2000 we have witnessed several outstanding results in geometry that have solved long standing problems such as the Poincaré conjecture the Yau Tian Donaldson conjecture and the Willmore conjecture There are still many important and challenging unsolved problems including among others the Strominger Yau Zaslow conjecture on mirror symmetry the relative Yau Tian Donaldson conjecture in Kähler geometry the Hopf conjecture and the Yau conjecture on the first eigenvalue of an embedded minimal hypersurface of the sphere For the younger generation to approach such problems and obtain the required techniques it is of the utmost importance to provide them with up to date information from leading specialists The geometry conference for the friendship of China and Japan has achieved this purpose during the past 10 years Their talks deal with problems at the highest level often accompanied with solutions and ideas which extend across various fields in Riemannian geometry symplectic and contact geometry and complex geometry Foliations on Riemannian Manifolds and Submanifolds Vladimir Rovenski, 2012-12-06 This monograph is based on the author's results on the Riemannian geometry of foliations with nonnegative mixed curvature and on the geometry of submanifolds with generators rulings in a Riemannian space of nonnegative curvature The main idea is that such foliated submanifolds can be decomposed when the dimension of the leaves generators is large The methods of investigation are mostly synthetic The work is divided into two parts consisting of seven chapters and three appendices Appendix A was written jointly with V Toponogov Part 1 is devoted to the Riemannian geometry of foliations In the first few sections of Chapter I we give a survey of the basic results on foliated smooth manifolds Sections 1.1.1.3 and finish in Section 1.4 with a discussion of the key problem of this work the role of Riemannian curvature in the study of foliations on manifolds and submanifolds Progress in Inverse Spectral Geometry Stig I. Andersson, Michel L. Lapidus, 2012-12-06 Most polynomial growth on every half space \mathbb{R}^n Moreover ϕ_t depends holomorphically on t for $\operatorname{Re} t > 0$ General references for much of the material on the derivation of spectral functions asymptotic expansions and analytic properties of spectral functions are A.P.S. and Sh. especially Chapter 2 To study the spectral functions and their relation to the geometry and topology of X one could for example take the natural associated parabolic problem as a starting point That is consider the heat equation $\partial_t u + \Delta u = 0$ which is solved by means of the heat semi group $V(t)$ namely $u(t) = V(t)u(0)$

Assuming that V is of trace class which is guaranteed for instance if P has a positive principal symbol it has a Schwartz kernel $K \in C^\infty(X \times X; \mathbb{R})$ locally given by $\sum_k \langle K(x, y), t \rangle L_k(x, y)$ for a complete set of orthonormal eigensections $P_k \in C^\infty(E)$. Taking the trace we then obtain $\text{tr} \, \text{Op}(t) = \sum_k \langle K(x, x), t \rangle$. Now using e.g. the Dunford calculus formula where C is a suitable curve around λ as a starting point and the standard formalism of pseudodifferential operators one easily derives asymptotic expansions for the spectral functions in this case for $\text{Op}(t)$.

Extrinsic Geometry of Foliations Vladimir Rovenski, Paweł Walczak, 2021-05-22 This book is devoted to geometric problems of foliation theory in particular those related to extrinsic geometry modern branch of Riemannian Geometry The concept of mixed curvature is central to the discussion and a version of the deep problem of the Ricci curvature for the case of mixed curvature of foliations is examined The book is divided into five chapters that deal with integral and variation formulas and curvature and dynamics of foliations Different approaches and methods local and global regular and singular in solving the problems are described using integral and variation formulas extrinsic geometric flows generalizations of the Ricci and scalar curvatures pseudo Riemannian and metric affine geometries and computable Finsler metrics The book presents the state of the art in geometric and analytical theory of foliations as a continuation of the authors life long work in extrinsic geometry It is designed for newcomers to the field as well as experienced geometers working in Riemannian geometry foliation theory differential topology and a wide range of researchers in differential equations and their applications It may also be a useful supplement to postgraduate level work and can inspire new interesting topics to explore

Lie Groups and Geometric Aspects of Isometric Actions

Marcos M. Alexandrino, Renato G. Bettiol, 2015-05-22 This book provides quick access to the theory of Lie groups and isometric actions on smooth manifolds using a concise geometric approach After a gentle introduction to the subject some of its recent applications to active research areas are explored keeping a constant connection with the basic material The topics discussed include polar actions singular Riemannian foliations cohomogeneity one actions and positively curved manifolds with many symmetries This book stems from the experience gathered by the authors in several lectures along the years and was designed to be as self contained as possible It is intended for advanced undergraduates graduate students and young researchers in geometry and can be used for a one semester course or independent study

Foliations and Geometric Structures Aurel Bejancu, Hani Reda Farran, 2006-01-17 Offers basic material on distributions and foliations This book introduces and builds the tools needed for studying the geometry of foliated manifolds Its main theme is to investigate the interrelations between foliations of a manifold on the one hand and the many geometric structures that the manifold may admit on the other hand

Differential Geometry And Its Applications - International Conference

Josef Janyska, Demeter Krupka, 1990-03-01 The proceedings consists of lectures and selected original research papers presented at the conference The contents is divided into 3 parts I Geometric structures II the calculus of variations on manifolds III Geometric methods in physics The volume also covers interdisciplinary areas between differential geometry and

mathematical physics like field theory relativity classical and quantum mechanics

Foliations on Riemannian

Manifolds Philippe Tondeur, 2012-12-06 A first approximation to the idea of a foliation is a dynamical system and the resulting decomposition of a domain by its trajectories This is an idea that dates back to the beginning of the theory of differential equations i e the seventeenth century Towards the end of the nineteenth century Poincare developed methods for the study of global qualitative properties of solutions of dynamical systems in situations where explicit solution methods had failed He discovered that the study of the geometry of the space of trajectories of a dynamical system reveals complex phenomena He emphasized the qualitative nature of these phenomena thereby giving strong impetus to topological methods A second approximation is the idea of a foliation as a decomposition of a manifold into submanifolds all being of the same dimension Here the presence of singular submanifolds corresponding to the singularities in the case of a dynamical system is excluded This is the case we treat in this text but it is by no means a comprehensive analysis On the contrary many situations in mathematical physics most definitely require singular foliations for a proper modeling The global study of foliations in the spirit of Poincare was begun only in the 1940 s by Ehresmann and Reeb Global Differential Geometry and Global Analysis

Dirk Ferus, Ulrich Pinkall, Udo Simon, Bernd Wegner, 2006-11-14 All papers appearing in this volume are original research articles and have not been published elsewhere They meet the requirements that are necessary for publication in a good quality primary journal E Belchev S Hineva On the minimal hypersurfaces of a locally symmetric manifold N Blasic N Bokan P Gilkey The spectral geometry of the Laplacian and the conformal Laplacian for manifolds with boundary J Bolton W M Oxbury L Vrancken L M Woodward Minimal immersions of RP^2 into CP^n W Cieslak A Miernowski W Mozgawa Isoptics of a strictly convex curve F Dillen L Vrancken Generalized Cayley surfaces A Ferrandez O J Garay P Lucas On a certain class of conformally flat Euclidean hypersurfaces P Gauduchon Self dual manifolds with non negative Ricci operator B Hajduk On the obstruction group to existence of Riemannian metrics of positive scalar curvature U Hammenstaedt Compact manifolds with 1 4 pinched negative curvature J Jost Xiaowei Peng The geometry of moduli spaces of stable vector bundles over Riemannian surfaces O Kowalski F Tricerri A canonical connection for locally homogeneous Riemannian manifolds M Kozłowski Some improper affine spheres in A^3 R Kusner A maximum principle at infinity and the topology of complete embedded surfaces with constant mean curvature Anmin Li Affine completeness and Euclidean completeness U Lumiste On submanifolds with parallel higher order fundamental form in Euclidean spaces A Martinez F Milan Convex affine surfaces with constant affine mean curvature M Min Oo E A Ruh P Tondeur Transversal curvature and tautness for Riemannian foliations S Montiel A Ros Schroedinger operators associated to a holomorphic map D Motreanu Generic existence of Morse functions on infinite dimensional Riemannian manifolds and applications B Opozda Some extensions of Radon's theorem **Geometry And Its Applications - Proceedings Of The Workshop In Honor Of Morio Obata** Masahiko Kanai, Tadashi Nagano, Hideki Omori, Yoshiaki Maeda, 1993-07-06 In honour of the 65th birthday of Professor M Obata a workshop was held at Keio

University This volume includes notes on the talks and discussions which took place and cover a wide range of subjects on geometry global analysis topology and mathematical physics

Geometry of Foliations Philippe Tondeur, 2012-12-06 The topics in this survey volume concern research done on the differential geometry of foliations over the last few years After a discussion of the basic concepts in the theory of foliations in the first four chapters the subject is narrowed down to Riemannian foliations on closed manifolds beginning with Chapter 5 Following the discussion of the special case of flows in Chapter 6 Chapters 7 and 8 are devoted to Hodge theory for the transversal Laplacian and applications of the heat equation method to Riemannian foliations Chapter 9 on Lie foliations is a preparation for the statement of Molino's Structure Theorem for Riemannian foliations in Chapter 10 Some aspects of the spectral theory for Riemannian foliations are discussed in Chapter 11 Connes point of view of foliations as examples of non commutative spaces is briefly described in Chapter 12 Chapter 13 applies ideas of Riemannian foliation theory to an infinite dimensional context Aside from the list of references on Riemannian foliations items on this list are referred to in the text by we have included several appendices as follows Appendix A is a list of books and surveys on particular aspects of foliations Appendix B is a list of proceedings of conferences and symposia devoted partially or entirely to foliations Appendix C is a bibliography on foliations which attempts to be a reasonably complete list of papers and preprints on the subject of foliations up to 1995 and contains approximately 2500 titles

Geometric Study Of Foliations - Proceedings Of The International Symposium/workshop Tadayoshi Mizutani, Kazuo Masuda, Shigenori Matsumoto, Takashi Inaba, Takashi Tsuboi, Yoshihiko Mitsumatsu, 1994-12-16 This book covers recent topics in various aspects of foliation theory and its relation with other areas including dynamical systems C algebras index theory and low dimensional topology It contains survey articles by G Hector S Hurder and P Molino as well as more than 20 original papers by specialists who are currently most active in the field

The Diverse World of PDEs I. S. Krasil'shchik, A. B. Sossinsky, A. M. Verbovetsky, 2023-08-21 This volume contains the proceedings of the Alexandre Vinogradov Memorial Conference on Diffieties Cohomological Physics and Other Animals held from December 13-17 2021 at the Independent University of Moscow and Moscow State University Moscow Russia The papers are devoted to various interrelations of nonlinear PDEs with geometry and integrable systems The topics discussed are gravitational and electromagnetic fields in General Relativity nonlocal geometry of PDEs Legendre foliated cocycles on contact manifolds presymplectic gauge PDEs and Lagrangian BV formalism jet geometry and high order phase transitions bi-Hamiltonian structures of KdV type bundles of Weyl structures Lax representations via twisted extensions of Lie algebras energy functionals and normal forms of knots and differential invariants of inviscid flows The companion volume Contemporary Mathematics Volume 789 is devoted to Algebraic and Cohomological Aspects of PDEs

Differential Geometric Structures and Applications Vladimir Rovenski, Paweł Walczak, Robert Wolak, 2024-03-15 This proceedings contains a collection of selected peer reviewed contributions from the 4th International Workshop Differential Geometric Structures and Applications held in Haifa Israel

from May 10 13 2023 The papers included in this volume showcase the latest advancements in modern geometry and interdisciplinary applications in fields ranging from mathematical physics to biology Since 2008 this workshop series has provided a platform for researchers in pure and applied mathematics including students to engage in discussions and explore the frontiers of modern geometry Previous workshops in the series have focused on topics such as Reconstruction of Geometrical Objects Using Symbolic Computations 2008 Geometry and Symbolic Computations 2013 and Geometric Structures and Interdisciplinary Applications 2018

Harmonic Mappings, Twistors And Sigma Models Paul Gauduchon, 1988-10-01 Harmonic mappings have played in recent years and will likely to play in the future an important role in Differential Geometry and Theoretical Physics where they are known as S models These Proceedings develop both aspects of the theory with a special attention to the constructive methods in particular the so called twistorial approach It includes expository articles on the twistorial methods the various appearance of models in Physics the powerful analytic theory of regularity of SCHOEN UHLENBECK

Geometric Analysis Jingyi Chen, Peng Lu, Zhiqin Lu, Zhou Zhang, 2020-04-10 This edited volume has a two fold purpose First comprehensive survey articles provide a way for beginners to ease into the corresponding sub fields These are then supplemented by original works that give the more advanced readers a glimpse of the current research in geometric analysis and related PDEs The book is of significant interest for researchers including advanced Ph D students working in geometric analysis Readers who have a secondary interest in geometric analysis will benefit from the survey articles The results included in this book will stimulate further advances in the subjects geometric analysis including complex differential geometry symplectic geometry PDEs with a geometric origin and geometry related to topology Contributions by Claudio Arezzo Alberto Della Vedova Werner Ballmann Henrik Matthiesen Panagiotis Polymerakis Sun Yung A Chang Zheng Chao Han Paul Yang Tobias Holck Colding William P Minicozzi II Panagiotis Dimakis Richard Melrose Akito Futaki Hajime Ono Jiyuan Han Jeff A Viaclovsky Bruce Kleiner John Lott Sławomir Koździej Ngoc Cuong Nguyen Chi Li Yuchen Liu Chenyang Xu YanYan Li Luc Nguyen Bo Wang Shiguang Ma Jie Qing Xiaonan Ma Sean Timothy Paul Kyriakos Sergiou Tristan Rivièrre Yanir A Rubinstein Natasa Sesum Jian Song Jeffrey Streets Neil S Trudinger Yu Yuan Weiping Zhang Xiaohua Zhu and Aleksey Zinger

Stable Homotopy Around the Arf-Kervaire Invariant Victor P. Snaith, 2009-03-28 Were I to take an iron gun And re it o towards the sun I grant twould reach its mark at last But not till many years had passed But should that bullet change its force And to the planets take its course Twould never reach the nearest star Because it is so very far from FACTS by Lewis Carroll 55 Let me begin by describing the two purposes which prompted me to write this monograph This is a book about algebraic topology and more especially about homotopy theory Since the inception of algebraic topology 217 the study of homotopy classes of continuous maps between spheres has enjoyed a very exc n n tional central role As is well known for homotopy classes of maps $f: S^n \rightarrow S^n$ with $n \geq 1$ the sole homotopy invariant is the degree which characterises the homotopy class completely The search for a continuous map between spheres of di erent

dimensions and not homotopic to the constant map had to wait for its resolution until the remarkable paper of Heinz Hopf
 111 In retrospect finding an example was rather easy because there is a canonical quotient map from S^3 to $S^1 \times S^2$
 the orbit space of the free circle action $S^1 \times S^3 \rightarrow S^1 \times S^2$

Metric Spaces of Non-Positive Curvature Martin R. Bridson, André Häfliger, 2013-03-09 The purpose of this book is to describe the global properties of complete simply connected spaces that are non positively curved in the sense of A D Alexandrov and to examine the structure of groups that act properly on such spaces by isometries Thus the central objects of study are metric spaces in which every pair of points can be joined by an arc isometric to a compact interval of the real line and in which every triangle satisfies the CAT(0) inequality This inequality encapsulates the concept of non positive curvature in Riemannian geometry and allows one to reflect the same concept faithfully in a much wider setting that of geodesic metric spaces Because the CAT(0) condition captures the essence of non positive curvature so well spaces that satisfy this condition display many of the elegant features inherent in the geometry of non positively curved manifolds There is therefore a great deal to be said about the global structure of CAT(0) spaces and also about the structure of groups that act on them by isometries such is the theme of this book 1 The origins of our study lie in the fundamental work of A D Alexandrov

Developments in Lorentzian Geometry Alma L. Albuja, Magdalena Caballero, Alfonso García-Parrado, Jónatan Herrera, Rafael Rubio, 2022-10-06 This proceedings volume gathers selected revised papers presented at the X International Meeting on Lorentzian Geometry GeLoCor 2021 virtually held at the University of Córdoba Spain on February 15 2021 It includes surveys describing the state of the art in specific areas and a selection of the most relevant results presented at the conference Taken together the papers offer an invaluable introduction to key topics discussed at the conference and an overview of the main techniques in use today This volume also gathers extended revisions of key studies in this field Bringing new results and examples these unique contributions offer new perspectives to the original problems and in most cases extend and reinforce the robustness of previous findings Hosted every two years since 2001 the International Meeting on Lorentzian Geometry has become one of the main events bringing together the leading experts on Lorentzian geometry In this volume the reader will find studies on spatial and null hypersurfaces low regularity in general relativity conformal structures Lorentz Finsler spacetimes and more Given its scope the book will be of interest to both young and experienced mathematicians and physicists whose research involves general relativity and semi Riemannian geometry

The Top Books of the Year Metric Foliations And Curvature Progress In Mathematics The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. Metric Foliations And Curvature Progress In Mathematics : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully 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 Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Metric Foliations And Curvature Progress In Mathematics : Delia Owens' "Where the Crawdads Sing" This evocative 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, captivating readers with its evocative prose and mesmerizing setting. These popular 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 compelling 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 a masterful and thrilling novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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