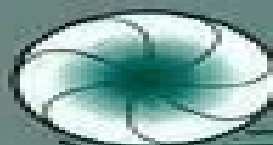


V. R o v e n s k i i

Foliations

on
Riemannian
Manifolds
and
Submanifolds



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Riemannian Foliations Progress In Mathematics Birkhauser Boston

**Pawel Walczak, Remi Langevin, Takashi
Tsuboi, Steven Hurder**



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Riemannian Foliations Molino, 2012-12-06 Foliation theory has its origins in the global analysis of solutions of ordinary differential equations on an n dimensional manifold M an autonomous differential equation is defined by a vector field X if this vector field has no singularities then its trajectories form a partition of M into curves i.e a foliation of codimension $n-1$ More generally a foliation F of codimension q on M corresponds to a partition of M into immersed submanifolds the leaves of dimension $p=n-q$ The first global image that comes to mind is that of a stack of plaques Viewed laterally transversally the leaves of such a stacking are the points of a quotient manifold W of dimension q $W=M$ Actually this image corresponds to an elementary type of foliation that one says is simple For an arbitrary foliation it is only locally on a simple open set U that the foliation appears as a stack of plaques and admits a local quotient manifold Globally a leaf L may return and cut a simple open set U in several plaques sometimes even an infinite number of plaques [Foliations 2005 - Proceedings Of The International Conference](#) Pawel Walczak, Remi Langevin, Takashi Tsuboi, Steven Hurder, 2006-09-20 This volume takes a look at the current state of the theory of foliations with surveys and research articles concerning different aspects The focused aspects cover geometry of foliated Riemannian manifolds Riemannian foliations and dynamical properties of foliations and some aspects of classical dynamics related to the field Among the articles readers may find a study of foliations which admit a transverse contractive flow an extensive survey on non commutative geometry of Riemannian foliations an article on contact structures converging to foliations as well as a few articles on conformal geometry of foliations This volume also contains a list of open problems in foliation theory which were collected from the participants of the Foliations 2005 conference [Foliations 2005](#) Pawe? Grzegorz Walczak, 2006 This volume takes a look at the current state of the theory of foliations with surveys and research articles concerning different aspects The focused aspects cover geometry of foliated Riemannian manifolds Riemannian foliations and dynamical properties of foliations and some aspects of classical dynamics related to the field Among the articles readers may find a study of foliations which admit a transverse contractive flow an extensive survey on non commutative geometry of Riemannian foliations an article on contact structures converging to foliations as well as a few articles on conformal geometry of foliations This volume also contains a list of open problems in foliation theory which were collected from the participants of the Foliations 2005 conference [Foliations: Geometry And Dynamics - Proceedings Of The Euroworkshop](#) Lawrence Conlon, Remi Langevin, Takashi Tsuboi, Pawel Walczak, 2002-02-01 This volume contains surveys and research articles regarding different aspects of the theory of foliation The main aspects concern the topology of foliations of low dimensional manifolds the geometry of foliated Riemannian manifolds and the dynamical properties of foliations Among the surveys are lecture notes devoted to the analysis of some operator algebras on foliated manifolds and the theory of confoliations objects defined recently by W Thurston and Y Eliashberg situated between foliations and contact structures Among the research articles one

can find a detailed proof of an unpublished theorem due to Duminy concerning ends of leaves in exceptional minimal sets

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

Proceedings of the Euroworkshop on Foliations Geometry and Dynamics, 29 May-9 June 2000, Warsaw, Poland Paweł Grzegorz Walczak, 2002 Contains surveys and research articles regarding different aspects of the theory of foliation

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

Foliations, Geometry, and Topology Nicolau Corção Saldanha, 2009 This volume represents the proceedings of the conference on Foliations Geometry and Topology held August 6-10 2007 in Rio de Janeiro Brazil in honor of the 70th birthday

of Paul Schweitzer The papers concentrate on the theory of foliations and related areas such as dynamical systems group actions on low dimensional manifolds and geometry of hypersurfaces There are survey papers on classification of foliations and their dynamical properties including codimension one foliations with Bott Morse singularities Other papers involve the relationship of foliations with characteristic classes contact structures and Eliashberg Mishachev wrinkled mappings

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

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