1. Record Nr. UNINA9910818017203321

Titolo	Proceedings of the Euroworkshop on Foliations Geometry and Dynamics : 29 May-9 June 2000, Warsaw, Poland / / editors, Pawe Walczak ... [et al.]
Pubbl/distr/stampa	Singapore ; ; River Edge, N.J., : World Scientific, c2002
ISBN	981-277-824-1
Edizione	[1st ed.]
Descrizione fisica	1 online resource (462 p.)
Altri autori (Persone)	WalczakPawe Grzegorz
Disciplina	514.72
Soggetti	Foliations (Mathematics) Differential topology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	CONTENTS ; SURVEY ARTICLES ; Some results on secondary characteristic classes of transversely holomorphic foliations ; 1 Introduction ; 2 Examples ; 3 Definitions ; 4 Rigidity and residuality ; 5 Another relation between the Bott class and the Godbillon-Vey class ; References LS-categories for foliated manifolds 1 Introduction ; 2 LS-category ; 3 Fibrewise category ; 4 Equivariant category ; 5 Foliated categories ; References ; Dynamics and the Godbillon-Vey class: a history and survey ; 1 A simple definition ; 2 Structure theory ; 3 Duminy's Theorem 4 Ergodic theory 5 Geometric entropy ; 6 Exceptional minimal sets ; 7 Extensions of Godbillon-Vey ; 8 Tricks and treats ; 9 Open questions ; References ; Similarity and conformal geometry of foliations ; 1 Euclidean integral geometry for foliations 2 Dimension-one foliations of homothety surfaces 3 The set of spheres ; 4 Codimension-one foliation of R^3, S^3 or H^3 ; 5 Bilocal statements ; References

; Foliations and contact structures on 3-manifolds
; 0 Introduction to contact geometry ; 1 3D contact topology due to Bennequin
2 Fillable contact structures and tightness
3 Contact structures and foliations: focused on the theory of confoliations ; 4 Anosov flows and bi-contact structures ;
5 Problems ; References ; Operator algebras and the index theorem on foliated manifolds
; Introduction
1 Topology of the leaf space M/F

Sommario/riassunto

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 unpub