Antonio Masiello

# Variational methods in Lorentzian geometry

# Variational Methods In Lorentzian Geometry

**I. Ciufolini**

**Variational Methods In Lorentzian Geometry:**

*Variational Methods in Lorentzian Geometry* Antonio Masiello,2017-10-05 Appliies variational methods and critical point theory on infinite dimenstional manifolds to some problems in Lorentzian geometry which have a variational nature such as existence and multiplicity results on geodesics and relations between such geodesics and the topology of the manifold

**Analytical and Numerical Approaches to Mathematical Relativity** Jörg Frauendiener,Domenico J. W. Giulini,Volker Perlick,2006-03-28 General relativity ranks among the most accurately tested fundamental theories in all of physics Deficiencies in mathematical and conceptual understanding still exist hampering further progress This book collects surveys by experts in mathematical relativity writing about the current status of and problems in their fields There are four contributions for each of the following mathematical areas differential geometry and differential topology analytical methods and differential equations and numerical methods **Recent Developments in General Relativity** B. Casciaro,D. Fortunato,M. Francaviglia,A. Masiello,2011-06-28 The 13th Italian Conference on General Relativity and Gravitational Physics was held in Cala Corvino Monopoli Bari from September 21to September 25 1998 The Conference which is held every other year in different Italian locations has brought together as in the earlier conferences in this series those scientists who are interested and actively work in all aspects of general relativity from both the mathematical and the physical points of view from classical theories of gravitation to quantum gravity from relativistic astrophysics and cosmology to experiments in gravitation About 70 participants came from Departments of Astronomy and Astrophysics Departments of Mathematics and Departments of Experimental and Theoretical Physics from all over the Country in addition a few Italian scientists working abroad kindly accepted invitations from the Scientific Committee The good wishes of the University and of the Politecnico di Bari were conveyed by the director of Diparti mento Interuniversitario di Matematica Prof Franco Altomare These proceedings contain the contributions of the two winners of the SIGRAV prizes the invited talks presented at the Conference and most of the contributed talks We thank all of our colleagues who did their best to prepare their manuscripts The pleasant atmosphere induced by the beauty of the place was greatlyenhanced not only by the participation of so many colleagues who had lively discussions about science well beyond Conference hours but also by the feeling of hospitalityextended to the participants by the staff of the Cala Corvino Hotel where the Conference was held Recent Developments in General Relativity,Genoa 2000 R. Cianci,R. Collina,M. Francaviglia,P. Fre,2013-04-17 A survey of the most recent developments in general relativity and in the theory of the unification of Fundamental Interactions is presented in this book The theoretical results the cosmological and astrophysical aspects the experimental and observational programs are shown in 26 general talks by renowned scientists active in this field Dynamical Systems and Differential Equations Shouchuan Hu,Xin Lu,Weiqing Xie,2005 Recent Developments in Gravitational Physics I. Ciufolini,2006-02-21 This volume provides an overview of the progress in gravitational physics reporting recent theoretical experimental and observational results The

book is based on the plenary invited and contributed papers presented at the biennial conference of the Italian Society of General Relativity and Gravitation SIGRAV held in Rome September 2002 The contributors discuss topics such as general relativity quantum gravity relativistic astrophysics cosmology and experimental gravitation This book is ideal for researchers and postgraduate students in relativity gravitation cosmology astrophysics and high energy physics **Nonlinear Partial Differential Equations and Their Applications** ,1981 **International Journal of Theoretical Physics, Group Theory, and Nonlinear Optics** ,2002 Ordinary and Partial Differential Equations ,1996 **Wind Finslerian Structures: From Zermelo?s Navigation to the Causality of Spacetimes** Erasmo Caponio,Miguel Angel Javaloyes,Miguel S nchez,2024-09-09 View the abstract **Discrete and Continuous Dynamical Systems** ,1997

*Further Advances in Twistor Theory* Lionel J. Mason,L. P. Hughston,1990 Twistor theory is the remarkable mathematicl framework that was discovered by Roger Penrose in the course of research into gravitation and quantum theory It has since developed into a broad many faceted programme that attempts to resolve basic problems in physics by encoding the the structure of physical fields and indeed space time itself into the complex analytical geometry of twistor space BOOK JACKET **Communications in Applied Analysis** ,2005 **Differential and Integral Equations** ,1999 The Bulletin of Mathematics Books ,1992 **Pacific Journal of Mathematics** ,1997 **The Asian Journal of Mathematics** ,2001 Advances in Differential Equations ,1997 **Topological Nonlinear Analysis** Michele Matzeu,Alfonso Vignoli,1994-12-22 Topological tools in Nonlinear Analysis had a tremendous develop ment during the last few decades The three main streams of research in this field Topological Degree Singularity Theory and Variational Meth ods have lately become impetuous rivers of scientific investigation The process is still going on and the achievements in this area are spectacular A most promising and rapidly developing field of research is the study of the role that symmetries play in nonlinear problems Symmetries appear in a quite natural way in many problems in physics and in differential or symplectic geometry such as closed orbits for autonomous Hamiltonian systems configurations of symmetric elastic plates under pressure Hopf Bifurcation Taylor vortices convective motions of fluids oscillations of chemical reactions etc Some of these problems have been tackled recently by different techniques using equivariant versions of Degree Singularity and Variations The main purpose of the present volume is to give a survey of some of the most significant achievements obtained by topological methods in Nonlinear Analysis during the last two three decades The survey articles presented here reflect the personal taste and points of view of the authors all of them well known and distinguished specialists in their own fields on the subject matter A common feature of these papers is that of start ing with an historical introductory background of the different disciplines under consideration and climbing up to the heights of the most recent re sults *Physics and Mathematics of Gravitation* Kerstin E. Kunze,Marc Mars,Miguel Angel Vázquez-Mozo,2009-05-29 The Spanish Relativity Meeting is an annual meeting providing a forum where all subjects in relativity and gravitation can be discussed During the

Spanish Relativity Meeting 2008 topics in general relativity mathematical relativity cosmology astrophysics numerical relativity black holes theories of gravity and string theory were treated

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