

Jürgen Jost

**Nonpositive Curvature:
Geometric and
Analytic Aspects**

Birkhäuser

Nonpositive Curvature Geometric And Analytic Aspects Lectures In Mathematics Eth Zurich

Alfredo Lorenzi, Bernhard Ruf



Nonpositive Curvature Geometric And Analytic Aspects Lectures In Mathematics Eth Zurich:

Nonpositive Curvature Jürgen Jost, 1997-05-01 *Nonpositive Curvature: Geometric and Analytic Aspects* Jürgen Jost, 2012-12-06 The present book contains the lecture notes from a Nachdiplomvorlesung a topics course addressed to Ph D students at the ETH ZURICH during the winter term 95 96 Consequently these notes are arranged according to the requirements of organizing the material for oral exposition and the level of difficulty and the exposition were adjusted to the audience in Zurich The aim of the course was to introduce some geometric and analytic concepts that have been found useful in advancing our understanding of spaces of nonpositive curvature In particular in recent years it has been realized that often it is useful for a systematic understanding not to restrict the attention to Riemannian manifolds only but to consider more general classes of metric spaces of generalized nonpositive curvature The basic idea is to isolate a property that on one hand can be formulated solely in terms of the distance function and on the other hand is characteristic of nonpositive sectional curvature on a Riemannian manifold and then to take this property as an axiom for defining a metric space of nonpositive curvature Such constructions have been put forward by Wald Alexandrov Busemann and others and they will be systematically explored in Chapter 2 Our focus and treatment will often be different from the existing literature In the first Chapter we consider several classes of examples of Riemannian manifolds of nonpositive curvature and we explain how conditions about nonpositivity or negativity of curvature can be exploited in various geometric contexts *Geometric Analysis and Nonlinear Partial Differential Equations* Stefan Hildebrandt, Hermann Karcher, 2012-12-06 This book is not a textbook but rather a coherent collection of papers from the field of partial differential equations Nevertheless we believe that it may very well serve as a good introduction into some topics of this classical field of analysis which despite of its long history is highly modern and well prospering Richard Courant wrote in 1950 It has always been a temptation for mathematicians to present the crystallized product of their thought as a deductive general theory and to relegate the individual mathematical phenomenon into the role of an example The reader who submits to the dogmatic form will be easily indoctrinated Enlightenment however must come from an understanding of motives live mathematical development springs from specific natural problems which can be easily understood but whose solutions are difficult and demand new methods or more general significance We think that many if not all papers of this book are written in this spirit and will give the reader access to an important branch of analysis by exhibiting interesting problems worth to be studied Most of the collected articles have an extensive introductory part describing the history of the presented problems as well as the state of the art and offer a well chosen guide to the literature This way the papers became lengthier than customary these days but the level of presentation is such that an advanced graduate student should find the various articles both readable and stimulating *Metric Spaces, Convexity and Nonpositive Curvature* Athanase Papadopoulos, 2005 *Selected Papers on Analysis and Differential Equations* American Mathematical Society, 2010 This volume contains translations of papers that originally

appeared in the Japanese journal Sugaku These papers range over a variety of topics in ordinary and partial differential equations and in analysis Many of them are survey papers presenting new results obtained in the last few years This volume is suitable for graduate students and research mathematicians interested in analysis and differential equations This volume contains translations of papers that originally appeared in the Japanese journal Sugaku These papers range over a variety of topics in ordinary and partial differential equations and in analysis Many of them are survey papers presenting new results obtained in the last few years This volume is suitable for graduate students and research mathematicians interested in analysis and differential equations

Convex Analysis and Optimization in Hadamard Spaces Miroslav

Bacak, 2014-10-29 In the past two decades convex analysis and optimization have been developed in Hadamard spaces This book represents a first attempt to give a systematic account on the subject Hadamard spaces are complete geodesic spaces of nonpositive curvature They include Hilbert spaces Hadamard manifolds Euclidean buildings and many other important spaces While the role of Hadamard spaces in geometry and geometric group theory has been studied for a long time first analytical results appeared as late as in the 1990s Remarkably it turns out that Hadamard spaces are appropriate for the theory of convex sets and convex functions outside of linear spaces Since convexity underpins a large number of results in the geometry of Hadamard spaces we believe that its systematic study is of substantial interest Optimization methods then address various computational issues and provide us with approximation algorithms which may be useful in sciences and engineering We present a detailed description of such an application to computational phylogenetics The book is primarily aimed at both graduate students and researchers in analysis and optimization but it is accessible to advanced undergraduate students as well

Handbook of Dynamical Systems B. Hasselblatt, A. Katok, 2002-08-20 Volumes 1A and 1B

These volumes give a comprehensive survey of dynamics written by specialists in the various subfields of dynamical systems The presentation attains coherence through a major introductory survey by the editors that organizes the entire subject and by ample cross references between individual surveys The volumes are a valuable resource for dynamicists seeking to acquaint themselves with other specialties in the field and to mathematicians active in other branches of mathematics who wish to learn about contemporary ideas and results dynamics Assuming only general mathematical knowledge the surveys lead the reader towards the current state of research in dynamics Volume 1B will appear 2005

Nonlinear Analysis and Optimization Boris S. Mordukhovich, Simeon Reich, Alexander J. Zaslavski, 2016-02-26 This volume contains the proceedings of the IMU AMS Special Session on Nonlinear Analysis and Optimization held from June 16-19 2014 at the Second Joint International Meeting of the Israel Mathematical Union IMU and the American Mathematical Society AMS Bar Ilan and Tel Aviv Universities Israel and the Workshop on Nonlinear Analysis and Optimization held on June 12 2014 at the Technion Israel Institute of Technology The papers in this volume cover many different topics in Nonlinear Analysis and Optimization including Taylor domination property for analytic functions in the complex disk mappings with upper integral bounds for p

moduli multiple Fourier transforms and trigonometric series in line with Hardy's variation finite parameter feedback control for stabilizing damped nonlinear wave equations implicit Euler approximation and optimization of one sided Lipschitz differential inclusions Bolza variational problems with extended valued integrands on large intervals first order singular variational problem with nonconvex cost gradient and extragradient methods for the elasticity imaging inverse problem discrete approximations of the entropy functional for probability measures on the plane optimal irrigation scheduling for wheat production existence of a fixed point of nonexpansive mappings in uniformly convex Banach spaces strong convergence properties of m accretive bounded operators the Reich Simons convex analytic inequality nonlinear input output equilibrium differential linear quadratic Nash games with mixed state control constraints and excessive revenue models of competitive markets

Handbook of Teichmüller Theory Athanase Papadopoulos, 2007 The Teichmüller space of a surface was introduced by O Teichmüller in the 1930s It is a basic tool in the study of Riemann's moduli spaces and the mapping class groups These objects are fundamental in several fields of mathematics including algebraic geometry number theory topology geometry and dynamics The original setting of Teichmüller theory is complex analysis The work of Thurston in the 1970s brought techniques of hyperbolic geometry to the study of Teichmüller space and its asymptotic geometry Teichmüller spaces are also studied from the point of view of the representation theory of the fundamental group of the surface in a Lie group G most notably $G = \mathrm{PSL}(2, \mathbb{R})$ and $G = \mathrm{PSL}(2, \mathbb{C})$ In the 1980s there evolved an essentially combinatorial treatment of the Teichmüller and moduli spaces involving techniques and ideas from high energy physics namely from string theory The current research interests include the quantization of Teichmüller space the Weil-Petersson symplectic and Poisson geometry of this space as well as gauge theoretic extensions of these structures The quantization theories can lead to new invariants of hyperbolic 3-manifolds The purpose of this handbook is to give a panorama of some of the most important aspects of Teichmüller theory The handbook should be useful to specialists in the field to graduate students and more generally to mathematicians who want to learn about the subject All the chapters are self contained and have a pedagogical character They are written by leading experts in the subject

Lectures on Algebraic Quantum Groups Ken Brown, Ken R. Goodearl, 2012-12-06 In September 2000 at the Centre de Recerca Matemàtica in Barcelona we presented a 30 hour Advanced Course on Algebraic Quantum Groups After the course we expanded and smoothed out the material presented in the lectures and integrated it with the background material that we had prepared for the participants this volume is the result As our title implies our aim in the course and in this text is to treat selected algebraic aspects of the subject of quantum groups Several of the words in the previous sentence call for some elaboration First we mean to convey several points by the term algebraic that we are concerned with algebraic objects the quantized analogues of classical algebraic objects in contrast for example to quantized versions of continuous function algebras on compact groups that we are interested in algebraic aspects of the structure of these objects and their representations in contrast for example to

applications to other areas of mathematics and that our tools will be drawn primarily from noncommutative algebra representation theory and algebraic geometry Second the term quantum groups itself This label is attached to a large and rapidly diversifying field of mathematics and mathematical physics originally launched by developments around 1980 in theoretical physics and statistical mechanics It is a field driven much more by examples than by axioms and so resists attempts at concise description but see Chapter 1 and the references therein

Heat Kernels and Analysis on Manifolds, Graphs, and Metric Spaces Pascal Auscher, T. Coulhon, 2003 This volume contains the expanded lecture notes of courses taught at the Emile Borel Centre of the Henri Poincaré Institute Paris In the book leading experts introduce recent research in their fields The unifying theme is the study of heat kernels in various situations using related geometric and analytic tools Topics include analysis of complex coefficient elliptic operators diffusions on fractals and on infinite dimensional groups heat kernel and isoperimetry on Riemannian manifolds heat kernels and infinite dimensional analysis diffusions and Sobolev type spaces on metric spaces quasi regular mappings and p Laplace operators heat kernel and spherical inversion on $SL(2, \mathbb{C})$ random walks and spectral geometry on crystal lattices isoperimetric and isocapacitary inequalities and generating function techniques for random walks on graphs This volume is suitable for graduate students and research mathematicians interested in random processes and analysis on manifolds

Alexandrov Geometry Stephanie Alexander, Vitali Kapovitch, Anton Petrunin, 2024-05-23 Alexandrov spaces are defined via axioms similar to those of the Euclid axioms but where certain equalities are replaced with inequalities Depending on the signs of the inequalities we obtain Alexandrov spaces with curvature bounded above CBA and curvature bounded below CBB Even though the definitions of the two classes of spaces are similar their properties and known applications are quite different The goal of this book is to give a comprehensive exposition of the structure theory of Alexandrov spaces with curvature bounded above and below It includes all the basic material as well as selected topics inspired by considering Alexandrov spaces with CBA and with CBB simultaneously The book also includes an extensive problem list with solutions indicated for every problem

Evolution Equations, Semigroups and Functional Analysis Brunello Terreni, 2002 Brunello Terreni 1953 2000 was a researcher and teacher with vision and dedication The present volume is dedicated to the memory of Brunello Terreni His mathematical interests are reflected in 20 expository articles written by distinguished mathematicians The unifying theme of the articles is evolution equations and functional analysis which is presented in various and diverse forms parabolic equations semigroups stochastic evolution optimal control existence uniqueness and regularity of solutions inverse problems as well as applications Contributors P Acquistapace V Barbu A Briani L Boccardo P Colli Franzone G Da Prato D Donatelli A Favini M Fuhrmann M Grasselli R Illner H Koch R Labbas H Lange I Lasiecka A Lorenzi A Lunardi P Marcati R Nagel G Nickel V Pata M M Porzio B Ruf G Savar R Schnaubelt E Sinestrari H Tanabe H Teismann E Terraneo R Triggiani A Yagi

Evolution Equations: Applications to Physics, Industry, Life Sciences and Economics Mimmo Iannelli, Gunter Lumer, 2012-12-06 The seventh

International Conference on Evolution Equations and their main areas of Applications where the emphasis evolves as time and problems change was held October 30 to November 4 at the CIRM Centro Internazionale per la Ricerca Matematica in Trento Italy In keeping with the basic principles and the recent tendencies governing these International Conferences it brought together many of the world's leading experts in the fields mentioned with particular effort on facilitating the interaction of established scientists and emerging young promising researchers as well as the interaction of pure and applied specialists In the latter directions emphasis was extended here to include in addition to Physical and Life Sciences also Industry and Economics Topics among the recent advances treated here concern new developments in moving boundary problems asymptotics in non linear Volterra equations and other asymptotics related developments Poincare inequality on stratified sets time operator and Markov processes in physics related advances behavior of granular matter stochastic aspects of Hamilton Jacobi Bellman equation very general Paley Wiener results applied to both classical and generalized functions Ornstein Uhlenbeck operators and processes quasilinear PDEs with memory operators semi group approach in economics pricing theory and other semi group related developments convolution evolution equation in aeroelasticity new developments in the study of age structured models new developments in maximal regularity

Selected Chapters in the Calculus of Variations Jürgen Moser, 2003-05-23 0 1 Introduction These lecture notes describe a new development in the calculus of variations which is called Aubry Mather Theory The starting point for the theoretical physicist Aubry was a model for the description of the motion of electrons in a two dimensional crystal Aubry investigated a related discrete variational problem and the corresponding minimal solutions On the other hand Mather started with a specific class of area preserving annulus mappings the so called monotone twist maps These maps appear in mechanics as Poincare maps Such maps were studied by Birkhoff during the 1920s in several papers In 1982 Mather succeeded to make essential progress in this field and to prove the existence of a class of closed invariant subsets which are now called Mather sets His existence theorem is based again on a variational principle Although these two investigations have different motivations they are closely related and have the same mathematical foundation We will not follow those approaches but will make a connection to classical results of Jacobi Legendre Weierstrass and others from the 19th century Therefore in Chapter I we will put together the results of the classical theory which are the most important for us The notion of extremal fields will be most relevant In Chapter II we will investigate variational problems on the 2 dimensional torus We will look at the corresponding global minimals as well as at the relation between minimals and extremal fields In this way we will be led to Mather sets

Evolution Equations, Semigroups and Functional Analysis Alfredo Lorenzi, Bernhard Ruf, 2012-12-06 Brunello Terreni 1953 2000 was a researcher and teacher with vision and dedication The present volume is dedicated to the memory of Brunello Terreni His mathematical interests are reflected in 20 expository articles written by distinguished mathematicians The unifying theme of the articles is evolution equations and functional analysis which is presented in various and diverse forms parabolic

equations semigroups stochastic evolution optimal control existence uniqueness and regularity of solutions inverse problems as well as applications Contributors P Acquistapace V Barbu A Briani L Boccardo P Colli Franzone G Da Prato D Donatelli A Favini M Fuhrmann M Grasselli R Illner H Koch R Labbas H Lange I Lasiecka A Lorenzi A Lunardi P Marcati R Nagel G Nickel V Pata M M Porzio B Ruf G Savar R Schnaubelt E Sinestrari H Tanabe H Teismann E Terraneo R Triggiani A Yagi

Ten Lectures on Random Media Erwin Bolthausen, Alain-Sol Sznitman, 2012-12-06 The following notes grew out of lectures held during the DMV Seminar on Random Media in November 1999 at the Mathematics Research Institute of Oberwolfach and in February March 2000 at the Ecole Normale Supérieure in Paris In both places the atmosphere was very friendly and stimulating The positive response of the audience was encouragement enough to write up these notes I hope they will carry over the enjoyment of the live lectures I wholeheartedly wish to thank Profs Matthias Kreck and Jean-François Le Gall who were responsible for these two very enjoyable visits Laurent Miclo for his comments on an earlier version of these notes and last but not least Erwin Bolthausen who was my accomplice during the DMV Seminar A Brief Introduction The main theme of this series of lectures are Random motions in random media The subject gathers a variety of probabilistic models often originated from physical sciences such as solid state physics physical chemistry oceanography biophysics in which typically some diffusion mechanism takes place in an inhomogeneous medium Randomness appears at two levels It comes in the description of the motion of the particle diffusing in the medium this is a rather traditional point of view for probability theory but it also comes in the very description of the medium in which the diffusion takes place **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 noncommutative 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 **Handbook of Differential Equations: Evolutionary Equations** C.M.

Dafermos, Eduard Feireisl, 2011-09-22 The material collected in this volume reflects the active present of this area of

mathematics ranging from the abstract theory of gradient flows to stochastic representations of non linear parabolic PDE s
 Articles will highlight the present as well as expected future directions of development of the field with particular emphasis
 on applications The article by Ambrosio and Savar discusses the most recent development in the theory of gradient flow of
 probability measures After an introduction reviewing the properties of the Wasserstein space and corresponding
 subdifferential calculus applications are given to evolutionary partial differential equations The contribution of Herrero
 provides a description of some mathematical approaches developed to account for quantitative as well as qualitative aspects
 of chemotaxis Particular attention is paid to the limits of cell scapability to measure external cues on the one hand and to
 provide an overall description of aggregation models for the slim mold Dictyostelium discoideum on the other The chapter
 written by Masmoudi deals with a rather different topic examples of singular limits in hydrodynamics This is nowadays a well
 studied issue given the amount of new results based on the development of the existence theory for rather general systems of
 equations in hydrodynamics The paper by DeLellis addresses the most recent results for the transport equations with regard
 to possible applications in the theory of hyperbolic systems of conservation laws Emphasis is put on the development of the
 theory in the case when the governing field is only a BV function The chapter by Rein represents a comprehensive survey of
 results on the Poisson Vlasov system in astrophysics The question of global stability of steady states is addressed in detail
 The contribution of Soner is devoted to different representations of non linear parabolic equations in terms of Markov
 processes After a brief introduction on the linear theory a class of non linear equations is investigated with applications to
 stochastic control and differential games The chapter written by Zuazua presents some of the recent progresses done on the
 problem of controllability of partial differential equations The applications include the linear wave and heat equations
 parabolic equations with coefficients of low regularity and some fluid structure interaction models Volume 1 focuses on the
 abstract theory of evolution Volume 2 considers more concrete problems relating to specific applications Volume 3 reflects
 the active present of this area of mathematics ranging from the abstract theory of gradient flows to stochastic
 representations of non linear PDEs

Convex Functions and Their Applications Constantin P. Niculescu, Lars-Erik Persson, 2018-06-08 Thorough introduction to an important area of mathematics Contains recent results Includes many exercises

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