



Graph Directed Markov Systems

**D. Marc Kilgour, Herb Kunze, Roman
Makarov, Roderick Melnik, Xu Wang**

Graph Directed Markov Systems:

Graph Directed Markov Systems R. Daniel Mauldin, Mariusz Urbanski, 2003-08-07 The main focus of this book is the exploration of the geometric and dynamic properties of a far reaching generalization of a conformal iterated function system a Graph Directed Markov System These systems are very robust in that they apply to many settings that do not fit into the scheme of conformal iterated systems The basic theory is laid out here and the authors have touched on many natural questions arising in its context However they also emphasise the many issues and current research topics which can be found in original papers For example the detailed analysis of the structure of harmonic measures of limit sets the examination of the doubling property of conformal measures the extensive study of generalized polynomial like mapping or multifractal analysis of geometrically finite Kleinian groups This book leads readers onto frontier research in the field making it ideal for both established researchers and graduate students

Graph Directed Markov Systems R. Daniel Mauldin, Mariusz Urbański, 2014-05-14 Monograph on Graph Directed Markov Systems with background and research level material

Conformal Graph Directed Markov Systems on Carnot Groups Vasileios Chousionis, Jeremy T. Tyson, Mariusz Urbanski, 2020-09-28 The authors develop a comprehensive theory of conformal graph directed Markov systems in the non Riemannian setting of Carnot groups equipped with a sub Riemannian metric In particular they develop the thermodynamic formalism and show that under natural hypotheses the limit set of an Carnot conformal GDMS has Hausdorff dimension given by Bowen's parameter They illustrate their results for a variety of examples of both linear and nonlinear iterated function systems and graph directed Markov systems in such sub Riemannian spaces These include the Heisenberg continued fractions introduced by Lukyanenko and Vandehey as well as Kleinian and Schottky groups associated to the non real classical rank one hyperbolic spaces

Dimension Spectrum and Graph Directed Markov Systems, 2006

Resonances for graph directed Markov systems, and geometry of infinitely generated dynamical systems Martial R. Hille, 2009

Asymptotic Counting in Conformal Dynamical Systems Mark Pollicott, Mariusz Urbański, 2021-09-24 View the abstract

[Open Conformal Systems and Perturbations of Transfer Operators](#) Mark Pollicott, Mariusz Urbański, 2018-02-05 The focus of this book is on open conformal dynamical systems corresponding to the escape of a point through an open Euclidean ball The ultimate goal is to understand the asymptotic behavior of the escape rate as the radius of the ball tends to zero In the case of hyperbolic conformal systems this has been addressed by various authors The conformal maps considered in this book are far more general and the analysis correspondingly more involved The asymptotic existence of escape rates is proved and they are calculated in the context of finite or infinite countable alphabets uniformly contracting conformal graph directed Markov systems and in particular conformal countable alphabet iterated function systems These results have direct applications to interval maps rational functions and meromorphic maps Towards this goal the authors develop on a purely symbolic level a theory of singular perturbations of Perron Frobenius transfer operators associated with

countable alphabet subshifts of finite type and Hölder continuous summable potentials This leads to a fairly full account of the structure of the corresponding open dynamical systems and their associated surviving sets Finer Thermodynamic Formalism - Distance Expanding Maps and Countable State Subshifts of Finite Type, Conformal GDMs, Lasota-Yorke Maps and Fractal Geometry Mariusz Urbański, Mario Roy, Sara Munday, 2022-06-06 This book consists of three volumes The first volume contains introductory accounts of topological dynamical systems finite state symbolic dynamics distance expanding maps and ergodic theory of metric dynamical systems acting on probability measure spaces including metric entropy theory of Kolmogorov and Sinai More advanced topics comprise infinite ergodic theory general thermodynamic formalism topological entropy and pressure Thermodynamic formalism of distance expanding maps and countable alphabet subshifts of finite type graph directed Markov systems conformal expanding repellers and Lasota-Yorke maps are treated in the second volume which also contains a chapter on fractal geometry and its applications to conformal systems Multifractal analysis and real analyticity of pressure are also covered The third volume is devoted to the study of dynamics ergodic theory thermodynamic formalism and fractal geometry of rational functions of the Riemann sphere Ergodic Theory - Finite and Infinite, Thermodynamic Formalism, Symbolic Dynamics and Distance Expanding Maps Mariusz Urbański, Mario Roy, Sara Munday, 2021-11-22 The book contains a detailed treatment of thermodynamic formalism on general compact metrizable spaces Topological pressure topological entropy variational principle and equilibrium states are presented in detail Abstract ergodic theory is also given a significant attention Ergodic theorems ergodicity and Kolmogorov-Sinai metric entropy are fully explored Furthermore the book gives the reader an opportunity to find rigorous presentation of thermodynamic formalism for distance expanding maps and in particular subshifts of finite type over a finite alphabet It also provides a fairly complete treatment of subshifts of finite type over a countable alphabet Transfer operators Gibbs states and equilibrium states are in this context introduced and dealt with Their relations are explored All of this is applied to fractal geometry centered around various versions of Bowen's formula in the context of expanding conformal repellers limit sets of conformal iterated function systems and conformal graph directed Markov systems A unique introduction to iteration of rational functions is given with emphasis on various phenomena caused by rationally indifferent periodic points Also a fairly full account of the classical theory of Shub's expanding endomorphisms is given it does not have a book presentation in English language mathematical literature Weakly Modular Graphs and Nonpositive Curvature Jérémie Chalopin, Victor Chepoi, Hiroshi Hirai, Damian Osajda, 2021-06-18 This article investigates structural geometrical and topological characterizations and properties of weakly modular graphs and of cell complexes derived from them The unifying themes of our investigation are various nonpositive curvature and local to global properties and characterizations of weakly modular graphs and their subclasses Weakly modular graphs have been introduced as a far reaching common generalization of median graphs and more generally of modular and orientable modular graphs Helly graphs bridged graphs and dual polar

graphs occurring under different disguises 1 skeletons collinearity graphs covering graphs domains etc in several seemingly unrelated fields of mathematics Metric graph theory Geometric group theory Incidence geometries and buildings Theoretical computer science and combinatorial optimization We give a local to global characterization of weakly modular graphs and their sub classes in terms of simple connectedness of associated triangle square complexes and specific local combinatorial conditions In particular we revisit characterizations of dual polar graphs by Cameron and by Brouwer Cohen We also show that disk Helly graphs are precisely the clique Helly graphs with simply connected clique complexes With 11 embeddable weakly modular and sweakly modular graphs we associate high dimensional cell complexes having several strong topological and geometrical properties contractibility and the CAT 0 property Their cells have a specific structure they are basis polyhedra of even matroids in the first case and orthoscheme complexes of gated dual polar subgraphs in the second case We resolve some open problems concerning subclasses of weakly modular graphs we prove a Brady McCammond conjecture about CAT 0 metric on the orthoscheme

Analytic Endomorphisms of the Riemann Sphere Mariusz Urbański, Mario Roy, Sara Munday, 2023-09-05 Complex dynamics is one of the most fascinating subjects of study and research in mathematics This third volume in the series entitled Non Invertible Dynamical Systems not only examines topological and analytical properties of the iteration of rational functions on the Riemann sphere in particular the Fatou and Julia sets but also focuses on thermodynamic ergodic and fractal properties of these functions notably equilibrium states Bowen's formula and Sullivan's conformal measures This volume builds on the first two volumes in the series while simultaneously developing some methods and techniques specific to rational functions

Data Mining and Big Data Ying Tan, Yuhui Shi, Albert Zomaya, Hongyang Yan, Jun Cai, 2021-10-29 This two volume set CCIS 1453 and CCIS 1454 constitutes refereed proceedings of the 6th International Conference on Data Mining and Big Data DMBD 2021 held in Guangzhou China in October 2021 The 57 full papers and 28 short papers presented in this two volume set were carefully reviewed and selected from 258 submissions The papers present the latest research on advantages in theories technologies and applications in data mining and big data The volume covers many aspects of data mining and big data as well as intelligent computing methods applied to all fields of computer science machine learning data mining and knowledge discovery data science etc

Meromorphic Dynamics: Volume 2 Janina Kotus, Mariusz Urbański, 2023-05-04 This text the second of two volumes builds on the foundational material on ergodic theory and geometric measure theory provided in Volume I and applies all the techniques discussed to describe the beautiful and rich dynamics of elliptic functions The text begins with an introduction to topological dynamics of transcendental meromorphic functions before progressing to elliptic functions discussing at length their classical properties measurable dynamics and fractal geometry The authors then look in depth at compactly non recurrent elliptic functions Much of this material is appearing for the first time in book or paper form Both senior and junior researchers working in ergodic theory and dynamical systems will appreciate what is sure to be an indispensable reference

New

Trends in One-Dimensional Dynamics Maria José Pacifico, Pablo Guarino, 2019-12-14 This volume presents the proceedings of the meeting New Trends in One Dimensional Dynamics which celebrated the 70th birthday of Welington de Melo and was held at the IMPA Rio de Janeiro in November 2016 Highlighting the latest results in one dimensional dynamics and its applications the contributions gathered here also celebrate the highly successful meeting which brought together experts in the field including many of Welington de Melo's co authors and former doctoral students Sadly Welington de Melo passed away shortly after the conference so that the present volume became more a tribute to him His role in the development of mathematics was undoubtedly an important one especially in the area of low level dynamics and his legacy includes in addition to many articles with fundamental contributions books that are required reading for all newcomers to the field

Contributions in Analytic and Algebraic Number Theory Valentin Blomer, Preda Mihailescu, 2011-11-19 The text that comprises this volume is a collection of surveys and original works from experts in the fields of algebraic number theory analytic number theory harmonic analysis and hyperbolic geometry A portion of the collected contributions have been developed from lectures given at the International Conference on the Occasion of the 60th Birthday of S J Patterson held at the University of Göttingen July 27-29 2009 Many of the included chapters have been contributed by invited participants This volume presents and investigates the most recent developments in various key topics in analytic number theory and several related areas of mathematics The volume is intended for graduate students and researchers of number theory as well as applied mathematicians interested in this broad field

Infinite Ergodic Theory of Numbers Marc Kesseböhmer, Sara Munday, Bernd Otto Stratmann, 2016-10-10 By connecting dynamical systems and number theory this graduate textbook on ergodic theory acts as an introduction to a highly active area of mathematics where a variety of strands of research open up The text explores various concepts in infinite ergodic theory always using continued fractions and other number theoretic dynamical systems as illustrative examples Contents Preface Mathematical symbols Number theoretical dynamical systems Basic ergodic theory Renewal theory and sum level sets Infinite ergodic theory Applications of infinite ergodic theory Bibliography Index

Lévy Processes in Lie Groups Ming Liao, 2004-05-10 The theory of Lévy processes in Lie groups is not merely an extension of the theory of Lévy processes in Euclidean spaces Because of the unique structures possessed by non commutative Lie groups these processes exhibit certain interesting limiting properties which are not present for their counterparts in Euclidean spaces These properties reveal a deep connection between the behaviour of the stochastic processes and the underlying algebraic and geometric structures of the Lie groups themselves The purpose of this work is to provide an introduction to Lévy processes in general Lie groups the limiting properties of Lévy processes in semi simple Lie groups of non compact type and the dynamical behavior of such processes as stochastic flows on certain homogeneous spaces The reader is assumed to be familiar with Lie groups and stochastic analysis but no prior knowledge of semi simple Lie groups is required

The Geometry of Total Curvature on Complete Open Surfaces Katsuhiko Shiohama, Takashi

Shioya, Minoru Tanaka, 2003-11-13 This is a self contained account of how some modern ideas in differential geometry can be used to tackle and extend classical results in integral geometry The authors investigate the influence of total curvature on the metric structure of complete non compact Riemannian 2 manifolds though their work much of which has never appeared in book form before can be extended to more general spaces Many classical results are introduced and then extended by the authors The compactification of complete open surfaces is discussed as are Busemann functions for rays Open problems are provided in each chapter and the text is richly illustrated with figures designed to help the reader understand the subject matter and get intuitive ideas about the subject The treatment is self contained assuming only a basic knowledge of manifold theory so is suitable for graduate students and non specialists who seek an introduction to this modern area of differential geometry

Geometry and Dynamics in Gromov Hyperbolic Metric Spaces Tushar Das, David Simmons, Mariusz Urbański, 2017-04-14 This book presents the foundations of the theory of groups and semigroups acting isometrically on Gromov hyperbolic metric spaces Particular emphasis is paid to the geometry of their limit sets and on behavior not found in the proper setting The authors provide a number of examples of groups which exhibit a wide range of phenomena not to be found in the finite dimensional theory The book contains both introductory material to help beginners as well as new research results and closes with a list of attractive unsolved problems

Recent Advances in Mathematical and Statistical Methods D. Marc Kilgour, Herb Kunze, Roman Makarov, Roderick Melnik, Xu Wang, 2018-11-04 This book focuses on the recent development of methodologies and computation methods in mathematical and statistical modelling computational science and applied mathematics It emphasizes the development of theories and applications and promotes interdisciplinary endeavour among mathematicians statisticians scientists engineers and researchers from other disciplines The book provides ideas methods and tools in mathematical and statistical modelling that have been developed for a wide range of research fields including medical health sciences biology environmental science engineering physics and chemistry finance economics and social sciences It presents original results addressing real world problems The contributions are products of a highly successful meeting held in August 2017 on the main campus of Wilfrid Laurier University in Waterloo Canada the International Conference on Applied Mathematics Modeling and Computational Science AMMCS 2017 They make this book a valuable resource for readers interested not only in a broader overview of the methods ideas and tools in mathematical and statistical approaches but also in how they can attain valuable insights into problems arising in other disciplines

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