

# Random mappings

- Let  $F_n$  denote all functions (mappings) from a finite domain of size  $n$  to a finite co-domain of size  $n$
- Every mapping is equally likely to be chosen,  $|F_n| = n^n$  the probability of choosing a particular mapping is  $1/n^n$
- Example.  $f : \{1, 2, \dots, 13\} \rightarrow \{1, 2, \dots, 13\}$



Graphic by Maithili Narasimha

- As  $n$  tends to infinity, the following are expectations of some parameters associated with a random point in  $\{1, 2, \dots, n\}$  and a random function from  $F_n$ : (i) tail length:  $\sqrt{(\pi n/8)}$  (ii) cycle length:  $\sqrt{(\pi n/8)}$  (iii) rho-length:  $\sqrt{(\pi n/2)}$ .

# Random Mappings

**Yu. L. Pavlov**



## Random Mappings:

Random Mappings Valentin Fedorovich Kolchin, 1986      Distance Expanding Random Mappings, Thermodynamical Formalism, Gibbs Measures and Fractal Geometry Volker Mayer, Bartłomiej Skorulski, Mariusz Urbanski, 2011-10-25 The theory of random dynamical systems originated from stochastic differential equations. It is intended to provide a framework and techniques to describe and analyze the evolution of dynamical systems when the input and output data are known only approximately according to some probability distribution. The development of this field in both the theory and applications has gone in many directions. In this manuscript we introduce measurable expanding random dynamical systems, develop the thermodynamical formalism and establish in particular the exponential decay of correlations and analyticity of the expected pressure, although the spectral gap property does not hold. This theory is then used to investigate fractal properties of conformal random systems. We prove a Bowen's formula and develop the multifractal formalism of the Gibbs states. Depending on the behavior of the Birkhoff sums of the pressure function we arrive at a natural classification of the systems into two classes: quasi-deterministic systems which share many properties of deterministic ones and essentially random systems which are rather generic and never bi-Lipschitz equivalent to deterministic systems. We show that in the essentially random case the Hausdorff measure vanishes, which refutes a conjecture by Bogenschütz and Ochs. Lastly we present applications of our results to various specific conformal random systems and positively answer a question posed by Bruck and Bugeur concerning the Hausdorff dimension of quadratic random Julia sets.

**Random Graphs '83** A. Rucinski, M. Karonski, 2011-10-10 The range of random graph topics covered in this volume includes structure colouring algorithms, mappings, trees, network flows and percolation. The papers also illustrate the application of probability methods to Ramsey's problems, the application of graph theory methods to probability and relations between games on graphs and random graphs.

**Asymptotic Combinatorics with Application to Mathematical Physics** V.A. Malyshev, A.M. Vershik, 2012-12-06 New and striking results obtained in recent years from an intensive study of asymptotic combinatorics have led to a new higher level of understanding of related problems: the theory of integrable systems, the Riemann-Hilbert problem, asymptotic representation theory, spectra of random matrices, combinatorics of Young diagrams and permutations, and even some aspects of quantum field theory.

**Random Forests** Yu. L. Pavlov, 2019-01-14 No detailed description available for Random Forests.

**Random Dynamical Systems** Ludwig Arnold, 2013-04-17 Background and Scope of the Book This book continues, extends and unites various developments in the intersection of probability theory and dynamical systems. I will briefly outline the background of the book, thus placing it in a systematic and historical context and tradition. Roughly speaking, a random dynamical system is a combination of a measure-preserving dynamical system in the sense of ergodic theory  $(X, \mathcal{F}, \mu, T)$  and a random process  $\{X_n\}_{n \geq 0}$  on a probability space  $(\Omega, \mathcal{G}, \mathbb{P})$ . The random dynamical system is typically generated by a differential or difference equation  $\dot{x} = f(x, \omega)$  or  $x_{n+1} = f(x_n, \omega_{n+1})$  where  $f$  is a random map. Both components have

been very well investigated separately. However a symbiosis of them leads to a new research program which has only partly been carried out. As we will see it also leads to new problems which do not emerge if one only looks at ergodic theory and smooth or topological dynamics separately. From a dynamical systems point of view this book just deals with those dynamical systems that have a measure preserving dynamical system as a factor or the other way around are extensions of such a factor. As there is an invariant measure on the factor ergodic theory is always involved.

**Fast Software Encryption** Bart Preneel, 1995-10-25 This book contains a set of revised refereed papers selected from the presentations at the Second International Workshop on Fast Software Encryption held in Leuven Belgium in December 1994. The 28 papers presented significantly advance the state of the art of software algorithms for two cryptographic primitives requiring very high speeds, namely encryption algorithms and hash functions. This volume contains six proposals for new ciphers as well as new results on the security of the new proposals. In addition there is an introductory overview by the volume editor. The papers are organized in several sections on stream ciphers and block ciphers. Other papers deal with new algorithms and protocols or other recent results.

**Random Graphs** Béla Bollobás, 2001-08-30 This is a revised and updated version of the classic first edition. Introduction to Random Graphs Alan Frieze, Michał Karoński, 2016 The text covers random graphs from the basic to the advanced including numerous exercises and recommendations for further reading.

**Topological Dynamics of Random Dynamical Systems** Nguyen Dinh Cong, 1997 This book is the first systematic treatment of the theory of topological dynamics of random dynamical systems. A relatively new field, the theory of random dynamical systems unites and develops the classical deterministic theory of dynamical systems and probability theory, finding numerous applications in disciplines ranging from physics and biology to engineering, finance and economics. This book presents in detail the solutions to the most fundamental problems of topological dynamics: linearization of nonlinear smooth systems, classification and structural stability of linear hyperbolic systems. Employing the tools and methods of algebraic ergodic theory, the theory presented in the book has surprisingly beautiful results showing the richness of random dynamical systems as well as giving a gentle generalization of the classical deterministic theory.

*Random Graphs* V. F. Kolchin, 1999 Results of research on classical combinatorial structures such as random graphs, permutations and systems of random linear equations in finite fields.

*Combinatorics and Finite Fields* Kai-Uwe Schmidt, Arne Winterhof, 2019-07-08 Combinatorics and finite fields are of great importance in modern applications such as in the analysis of algorithms in information and communication theory and in signal processing and coding theory. This book contains survey articles on topics such as difference sets, polynomials and pseudorandomness.

**Monotone Random Systems Theory and Applications** Igor Chueshov, 2004-10-11 The aim of this book is to present a recently developed approach suitable for investigating a variety of qualitative aspects of order preserving random dynamical systems and to give the background for further development of the theory. The main objects considered are equilibria and attractors. The effectiveness of this approach is demonstrated by analysing the long time behaviour of some

classes of random and stochastic ordinary differential equations which arise in many applications      Sequences and Their Applications - SETA 2008 Solomon W. Golomb, Matthew G. Parker, Alexander Pott, Arne Winterhof, 2008-09-15 This book constitutes the refereed proceedings of the 5th International Conference on Sequences and Their Applications SETA 2008 held in Lexington KY USA in September 2008 The 32 revised full papers presented were carefully reviewed and selected The papers are organized in topical sections on probabilistic methods and randomness properties of sequences correlation combinatorial and algebraic foundations security aspects of sequences algorithms correlation of sequences over rings nonlinear functions over finite fields      **Random Walks on Infinite Groups** Steven P. Lalley, 2023-05-08 This text presents the basic theory of random walks on infinite finitely generated groups along with certain background material in measure theoretic probability The main objective is to show how structural features of a group such as amenability nonamenability affect qualitative aspects of symmetric random walks on the group such as transience recurrence speed entropy and existence or nonexistence of nonconstant bounded harmonic functions The book will be suitable as a textbook for beginning graduate level courses or independent study by graduate students and advanced undergraduate students in mathematics with a solid grounding in measure theory and a basic familiarity with the elements of group theory The first seven chapters could also be used as the basis for a short course covering the main results regarding transience recurrence decay of return probabilities and speed The book has been organized and written so as to be accessible not only to students in probability theory but also to students whose primary interests are in geometry ergodic theory or geometric group theory

**Probabilistic Methods in Discrete Mathematics** Valentin Fedorovič Kolčín, 1993      **Progress in Pure and Applied Discrete Mathematics, Vol. 1: Probabilistic Methods in Discrete Mathematics** V.F. Kolchin, V. Ya. Kozlov, Yu. L. Pavlov, Yu. V. Prokhorov, 2020-05-18 No detailed description available for Progress in Pure and Applied Discrete Mathematics Vol 1 Probabilistic Methods in Discrete Mathematics      **The Theory of Stochastic Processes I** Iosif I. Gikhman, Anatoli V. Skorokhod, 2015-03-30 From the Reviews Gihman and Skorohod have done an excellent job of presenting the theory in its present state of rich imperfection D W Stroock in Bulletin of the American Mathematical Society 1980 To call this work encyclopedic would not give an accurate picture of its content and style Some parts read like a textbook but others are more technical and contain relatively new results The exposition is robust and explicit as one has come to expect of the Russian tradition of mathematical writing The set when completed will be an invaluable source of information and reference in this ever expanding field K L Chung in American Scientist 1977 The dominant impression is of the authors mastery of their material and of their confident insight into its underlying structure J F C Kingman in Bulletin of the London Mathematical Society 1977      **Advances in Cryptology - EUROCRYPT '89** Jean-Jacques Quisquater, Joos Vandewalle, 2003-06-30 I he international Association for Cryptologic Research IACK organizes two inter tioiill coiifcncnces every year one in Europe and one in the United States EUROCRI PT 89 was the seventh European conference and was held in Houthalen Belgium on April

10 13 1989 With close to 300 participants it was perhaps the largest open conference on cryptography ever held. The field of cryptography is expanding not only because of the increased vulnerability of computer systems and networks to a11 increasing range of threats but also because of t1ic rapid progress in cryptographic methods that t he readers can witness by reading the book. The present proceedings contain nearly all contributions which were presented including the talks at the rump session. The chapters correspond to the sessions at the conference. It wa5 the first time that a rump session was organized on a Eurocrypt conference. Sixteen impromptu talks were given and the authors were invited to submit short abstracts of their presentations. Because of the special character of this session the editors have taken the liberty to shorten some of these.

*Identification Problem and Random Contraction Mappings* Kandarp Oza, 1967

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