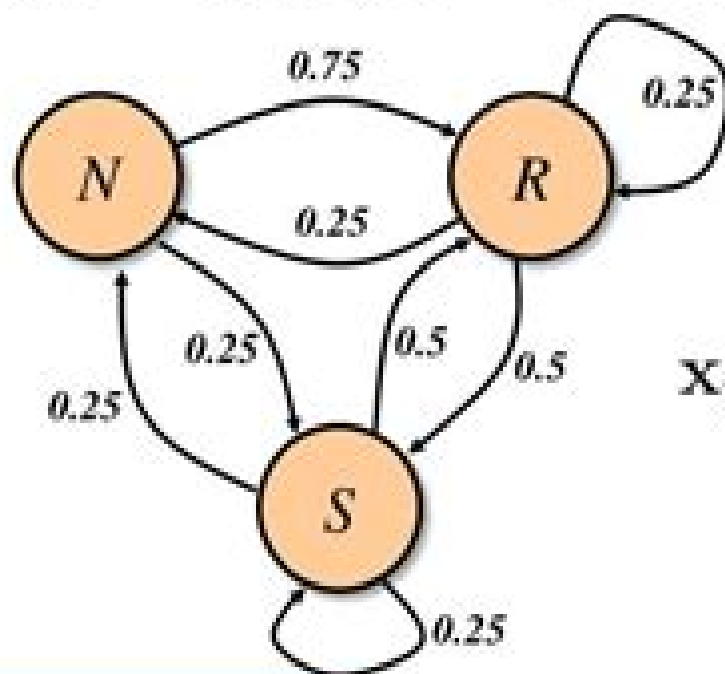


Markov chains

- Example: Springtime in Ithaca
- We can represent this as a kind of graph
- (N = Nice, S = Snowy, R = Rainy)



$$\mathbf{x}_{t-1} \begin{matrix} & \mathbf{x}_t \\ & \begin{matrix} N & R & S \end{matrix} \\ \begin{matrix} N \\ R \\ S \end{matrix} & \begin{bmatrix} 0.0 & 0.75 & 0.25 \\ 0.25 & 0.25 & 0.5 \\ 0.25 & 0.5 & 0.25 \end{bmatrix} \end{matrix}$$

Transition probabilities

Markov Chains

Kai Lai Chung



Markov Chains:

Markov Chains Pierre Bremaud, 2013-03-09 In this book the author begins with the elementary theory of Markov chains and very progressively brings the reader to the more advanced topics. He gives a useful review of probability that makes the book self-contained and provides an appendix with detailed proofs of all the prerequisites from calculus, algebra, and number theory. A number of carefully chosen problems of varying difficulty are proposed at the close of each chapter and the mathematics are slowly and carefully developed in order to make self-study easier. The author treats the classic topics of Markov chain theory both in discrete time and continuous time as well as the connected topics such as finite Gibbs fields, nonhomogeneous Markov chains, discrete time regenerative processes, Monte Carlo simulation, simulated annealing, and queueing theory. The result is an up-to-date textbook on stochastic processes. Students and researchers in operations research and electrical engineering as well as in physics and biology will find it very accessible and relevant. **Markov Chains** Kai Lai Chung, 2012-12-06 From the reviews: J. Neveu 1962 in Zentralblatt für Mathematik 92 Band Heft 2 p. 343. Ce livre crit par l'un des plus minents spécialistes en la matière est un exposé très détaillé de la théorie des processus de Markov définis sur un espace d'nombrable d'états et homogènes dans le temps. chaînes stationnaires de Markov. N. Jain 2008 in Selected Works of Kai Lai Chung edited by Farid Ait-Sahalia University of Florida USA Elton Hsu Northwestern University USA Ruth Williams University of California San Diego USA Chapter 1 p. 15 This monograph deals with countable state Markov chains in both discrete time Part I and continuous time Part II. Much of Kai Lai's fundamental work in the field is included in this monograph. Here for the first time Kai Lai gave a systematic exposition of the subject which includes classification of states, ratio ergodic theorems, and limit theorems for functionals of the chain. **Markov Chains** David Freedman, 2012-12-06 A long time ago I started writing a book about Markov chains, Brownian motion, and diffusion. I soon had two hundred pages of manuscript and my publisher was enthusiastic. Some years and several drafts later I had a thousand pages of manuscript and my publisher was less enthusiastic. So we made it a trilogy: Markov Chains, Brownian Motion, and Diffusion Approximating Countable Markov Chains. familiarly MC B if you can follow Sections 10.4 to 10.9 of Markov Chains you're in. The first two books are quite independent of one another and completely independent of the third. This last book is a monograph which explains one way to think about chains with instantaneous states. The results in it are supposed to be new except where there are specific disclaimers. It's written in the framework of Markov Chains. Most of the proofs in the trilogy are new and I tried hard to make them explicit. The old ones were often elegant but I seldom saw what made them go. With my own I can sometimes show you why things work. And as I will argue in a minute, my demonstrations are easier technically. If I wrote them down well enough you may come to agree. **Markov Chains** J. R. Norris, 1998-07-28 Markov chains are central to the understanding of random processes. This is not only because they pervade the applications of random processes but also because one can calculate explicitly many quantities of interest. This textbook aimed at advanced undergraduate or MSc

students with some background in basic probability theory focuses on Markov chains and quickly develops a coherent and rigorous theory whilst showing also how actually to apply it Both discrete time and continuous time chains are studied A distinguishing feature is an introduction to more advanced topics such as martingales and potentials in the established context of Markov chains There are applications to simulation economics optimal control genetics queues and many other topics and exercises and examples drawn both from theory and practice It will therefore be an ideal text either for elementary courses on random processes or those that are more oriented towards applications

Markov Chains Bruno Sericola, 2013-08-05 Markov Chains Theory and Applications Markov chains are a fundamental class of stochastic processes They are widely used to solve problems in a large number of domains such as operational research computer science communication networks and manufacturing systems The success of Markov chains is mainly due to their simplicity of use the large number of available theoretical results and the quality of algorithms developed for the numerical evaluation of many metrics of interest The author presents the theory of both discrete time and continuous time homogeneous Markov chains He carefully examines the explosion phenomenon the Kolmogorov equations the convergence to equilibrium and the passage time distributions to a state and to a subset of states These results are applied to birth and death processes He then proposes a detailed study of the uniformization technique by means of Banach algebra This technique is used for the transient analysis of several queuing systems

Markov Chains Wai-Ki Ching, Ximin Huang, Michael K. Ng, Tak-Kuen Siu, 2013-03-27 This new edition of Markov Chains Models Algorithms and Applications has been completely reformatted as a text complete with end of chapter exercises a new focus on management science new applications of the models and new examples with applications in financial risk management and modeling of financial data This book consists of eight chapters Chapter 1 gives a brief introduction to the classical theory on both discrete and continuous time Markov chains The relationship between Markov chains of finite states and matrix theory will also be highlighted Some classical iterative methods for solving linear systems will be introduced for finding the stationary distribution of a Markov chain The chapter then covers the basic theories and algorithms for hidden Markov models HMMs and Markov decision processes MDPs Chapter 2 discusses the applications of continuous time Markov chains to model queueing systems and discrete time Markov chain for computing the PageRank the ranking of websites on the Internet Chapter 3 studies Markovian models for manufacturing and re manufacturing systems and presents closed form solutions and fast numerical algorithms for solving the captured systems In Chapter 4 the authors present a simple hidden Markov model HMM with fast numerical algorithms for estimating the model parameters An application of the HMM for customer classification is also presented Chapter 5 discusses Markov decision processes for customer lifetime values Customer Lifetime Values CLV is an important concept and quantity in marketing management The authors present an approach based on Markov decision processes for the calculation of CLV using real data Chapter 6 considers higher order Markov chain models particularly a class of parsimonious higher

order Markov chain models Efficient estimation methods for model parameters based on linear programming are presented Contemporary research results on applications to demand predictions inventory control and financial risk measurement are also presented In Chapter 7 a class of parsimonious multivariate Markov models is introduced Again efficient estimation methods based on linear programming are presented Applications to demand predictions inventory control policy and modeling credit ratings data are discussed Finally Chapter 8 re visits hidden Markov models and the authors present a new class of hidden Markov models with efficient algorithms for estimating the model parameters Applications to modeling interest rates credit ratings and default data are discussed This book is aimed at senior undergraduate students postgraduate students professionals practitioners and researchers in applied mathematics computational science operational research management science and finance who are interested in the formulation and computation of queueing networks Markov chain models and related topics Readers are expected to have some basic knowledge of probability theory Markov processes and matrix theory

Approximating Countable Markov Chains David Freedman, 2012-12-06 A long time ago I started writing a book about Markov chains Brownian motion and diffusion I soon had two hundred pages of manuscript and my publisher was enthusiastic Some years and several drafts later I had a thousand pages of manuscript and my publisher was less enthusiastic So we made it a trilogy Markov Chains Brownian Motion and Diffusion *Approximating Countable Markov Chains* familiarly MC B if you can follow Sections 10 4 to 10 9 of Markov Chains you re in The first two books are quite independent of one another and completely independent of this one which is a monograph explaining one way to think about chains with instantaneous states The results here are supposed to be new except when there are specific disclaimers It s written in the framework of Markov chains we wanted to reprint in this volume the MC chapters needed for reference but this proved impossible Most of the proofs in the trilogy are new and I tried hard to make them explicit The old ones were often elegant but I seldom saw what made them go With my own I can sometimes show you why things work And as I will argue in a minute my demonstrations are easier technically If I wrote them down well enough you may come to agree

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Markov Chains and Invariant Probabilities Onésimo Hernández-Lerma, Jean B. Lasserre, 2012-12-06

This book is about discrete time homogeneous Markov chains and their ergodic behavior. To this end most of the material is in fact about stable Markov chains by which we mean Markov chains that admit an invariant probability measure. To state this more precisely and give an overview of the questions we shall be dealing with we will first introduce some notation and terminology. Let $(X, \mathcal{B})$ be a measurable space and consider a X -valued Markov chain $(X_k)_{k \geq 0}$ with transition probability function $p_{kj}(x) = P(X_{k+1} = j | X_k = x)$ for each $x \in X$, $j \in \mathcal{B}$ and $k \geq 0$. The Markov chain is said to be stable if there exists a probability measure μ on $\mathcal{B}$ such that $\int_X p_{kj}(x) \mu(dx) = \mu(j)$ holds for all $j \in \mathcal{B}$. If this holds then μ is called an invariant probability measure for the Markov chain or the transition probability function P .

Understanding Markov Chains Nicolas Privault, 2018-08-03 This book provides an undergraduate level introduction to discrete and continuous time Markov chains and their applications with a particular focus on the first step analysis technique and its applications to average hitting times and ruin probabilities. It also discusses classical topics such as recurrence and transience, stationary and limiting distributions as well as branching processes. It first examines in detail two important examples: gambling processes and random walks before presenting the general theory itself in the subsequent chapters. It also provides an introduction to discrete time martingales and their relation to ruin probabilities and mean exit times together with a chapter on spatial Poisson processes. The concepts presented are illustrated by examples, 138 exercises and 9 problems with their solutions.

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web what are the coordinates of the midpoint m $\frac{x_1 + x_2}{2}$ $\frac{y_1 + y_2}{2}$ compare the x coordinates of a and m compare the y coordinates of a and m $\frac{x_1 + x_2}{2}$ $\frac{y_1 + y_2}{2}$ how are the coordinates of the midpoint m related to the 4 coordinates of a and b making sense of problems

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web oct 4 2015 midpoint formula the midpoint between two points p and q is the point on the line segment pq that is halfway between p and q the formula for the midpoint is where the coordinates of p are and the coordinates of q are example find the midpoint of the line segment between p $1\ 5$ and q $4\ 3$ solution using the formula the

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web what is the midpoint formula the formula gives the midpoint of the points $greend\ x_1\ goldd\ y_1\ x_2\ y_2$ and $greend\ x_2\ goldd\ y_2$ in the coordinate plane left $greend\ \frac{x_1 + x_2}{2}$ $goldd\ \frac{y_1 + y_2}{2}$ right $2x_1\ x_2\ 2y_1\ y_2$

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web the formula for finding out the median is the sum of those two numbers divided by two ie $\frac{a + b}{2}$ where a and b are numbers for whom you want to find the median here s how it works suppose you have a line segment on the number line with start point 3 and end point 5 the midpoint of the segment is 4

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web 21 endpoint $1\ 9$ midpoint $9\ 10$ 22 endpoint $2\ 5$ midpoint $5\ 1$ 23 endpoint $5\ 2$ midpoint $10\ 2$ 24 endpoint $9\ 10$ midpoint $4\ 8$ 25 endpoint $9\ 7$ midpoint $10\ 3$ 26 endpoint $6\ 4$ midpoint $4\ 8$

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web may 28 2023 example $11\ 2$ use the distance formula to find the distance between the points $5\ 3$ and $7\ 2$ answer write the distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ label the points $x_1\ y_1\ 5\ 3\ x_2\ y_2\ 7\ 2$ and substitute d

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web you can use the midpoint and distance formulas to find midpoint and distance as long as you know the coordinates of

two points what is distance and midpoint the distance between two points is the length of the line segment connecting them

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web 1 use the distance formula 2 use the midpoint formula examples 1 find the distance between the points 3 7 and 4 10 2

determine whether the triangle formed by points a 2 2 b 2 1 and c 5 4 is a right triangle 3 find the midpoint of the line

segment joining the points p1 6 3 and p2 4 2 teaching notes

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web the blue text midpoint midpoint of the points green x_1 gold y_1 and green x_2 gold y_2 is given by the following formula $\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$ in this article we are going to derive this formula

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web how to find distance between two points to find distance between points $a(x_1, y_1)$ and $b(x_2, y_2)$ we use formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ example find distance between points a 3 4 and b 1 3 solution in this example we have $x_1 = 3, y_1 = 4, x_2 = 1, y_2 = 3$ so we have

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web the midpoint between the two points x_1, y_1 and x_2, y_2 is the distance formula is derived from the pythagorean theorem the distance between the two points x_1, y_1 and x_2, y_2 is the midpoint formula this video give the formula for finding the midpoint of two points and do one simple example to find the midpoint show step by step

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web 1 answer write the formula $m = \left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right)$ substitute 2 3 for x_1, y_1 and 2 2 for x_2, y_2 $m = \left(\frac{2 + 2}{2}, \frac{3 + 2}{2} \right) = (2, 2.5)$ 2 the midpoint of the line segment ab is m 0 1 2

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web this method can be used to determine the distance between any two points in a coordinate plane and is summarized in the distance formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ the point that is at the same distance from two points $a(x_1, y_1)$ and $b(x_2, y_2)$ on a line is called the midpoint you

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web distance and midpoint review quiz answer the following questions suggestion i midpoint 1 find the midpoint between a 0 1 and b 8 3 b 11 4 and c 6 4 c 17 7 and d 7 6 2 answer the following the midpoint of ab is 3 3 plot points and use graphs to solutions if point a 2 4 what is point b b il distance

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web feb 14 2022 use the distance formula to find the distance between the points 5 3 and 7 2 solution write the distance

formula $d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$ label the points $x_1 = 5, y_1 = 3, x_2 = 7, y_2 = 2$ and substitute $d = \sqrt{(7 - 5)^2 + (2 - 3)^2}$ simplify $d = \sqrt{2^2 + 1^2} = \sqrt{4 + 1} = \sqrt{5}$