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Discrete Random Variable And  
Probability

# Chapter 3 Discrete Random Variable And Probability

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## **Chapter 3 Discrete Random Variable**

A discrete random variable is a variable which can only take-on a countable number of values ( finite or countably infinite) Example (Discrete Random Variable) Flipping a coin twice, the random variable Number of Heads ...

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Chapter 3 Discrete Random Variables  
and Probability Distributions ...

## **Chapter 3 Discrete Random Variables and Probability ...**

Random variable:  $X$  = sum of the  
numbers 3. Experiment: apply different  
amounts of fertilizer to corn plants

Random variable:  $X$  = yield/acre I

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Remark: probability is also a function mapping events in the sample space to real numbers. One reason to define random variable is that it is easier to calculate probabilities with random variable instead of ...

## **Chapter 3: Discrete Random Variable**

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## Discrete Random Variable And Probability

Theorem. If  $X$  is a random variable with binomial distribution  $B(n;p)$ , then  $E[X] = np$   $Var[X] = np(1 - p)$ . Comment on the proof. Two approaches: (1) Direct computation. (2) Write  $X$  in terms of the sum of independent Bernoulli random variables [will come back to this later on after we learn more on independent random variables].

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## **Chapter 3. Discrete Random Variables - Applied Mathematics**

Discrete Uniform ( $k, l$ ) Random

Definition 3.8 Variable  $X$  is a discrete uniform ( $k, l$ ) random variable if the PMF of  $X$  has the form  $P_X(x) = \frac{1}{l - k + 1}$  — otherwise where the parameters  $k$  and  $l$  are integers such that  $k < l$ .



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## **Chapter 3 Discrete Random Variables - Korea University**

Chapter 3 Discrete Random Variables and Their Distributions This chapter introduces the concept of a random variable and studies discrete distributions in detail. Continuous distributions are discussed in Chapter 4

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... - Selection from Probability and  
Statistics for Computer Scientists, 2nd  
Edition [Book]

## **Chapter 3 Discrete Random Variables and Their ...**

Chapter 3 - Discrete Random Variables  
and Probability Distributions. Outline -  
Random variables. Outline - Discrete

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random ... Possible values are 1,2 3 Note that discrete random variables can have a finite range or an infinite range. Continuous random variables A random variable that can (theoretically) ...

## **Chapter 3 - Discrete Random Variables and Probability ...**

Chapter 3: Discrete Random Variable

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Shiwen Shen University of South  
Carolina 2016 Fall Section 003 1/62.  
Random Variable | Definition: A random  
variable is a function from a sample ... | A  
pmf  $p(x)$  for a discrete random variable  
 $X$  satisfies the following: 1.0  $p(x) \geq 0$ , for all  
possible values of  $x$ .

## **Chapter 3: Discrete Random**

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## **Variable**

Chapter 3. Discrete Random Variables  
and Probability Distributions Weiqi Luo ( )  
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Office ... - A free PowerPoint PPT  
presentation (displayed as a Flash slide  
show) on PowerShow.com - id: 6fb56e-  
YjExO

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## **PPT - Chapter 3. Discrete Random Variables and Probability ...**

Thus, for each driver who enters the parking facility, we can consider their choice of parking time as a discrete random variable. In this case, the random variable  $X$  has four possible values: 0.5, 1, 1.5, and 2. Assume that

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the probability distribution for  $X$  is given by the following table.

## **Discrete Random Variables (3 of 5) | Concepts in Statistics**

Discrete Random Variables. Discrete random variables can take on either a finite or at most a countably infinite set of discrete values (for example, the

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integers). Their probability distribution is given by a probability mass function which directly maps each value of the random variable to a probability.

## **Discrete Random Variables | Boundless Statistics**

Chapter 3 Discrete Random Variables  
and Probability Distributions Part 5:



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Common Discrete Random Variable  
Distributions Sections 3.8 Poisson 1/9.  
Poisson Distribution In many  
applications, we are interested in  
counting the number of occurrences of  
an event in a certain time period or in a  
certain region

## **Chapter 3 Discrete Random**

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## **Variables and Probability ...**

Chapter 3 Discrete Random Variables and Probability Distributions 3.1 Random variables We have seen from couples of examples that elements of a sample space may be very concrete objects such as people, coins, dice, cameras, chasing machines and so on. Some of them posses various qualities, some of

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which may be measurable. We will examine some of these illustrations and then set up a ...

## **3.1 random variables.pdf - Chapter 3 Discrete Random ...**

Chapter 3 Discrete Random Variables & Probability Distributions. STUDY. Flashcards. Learn. Write. Spell. Test.

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PLAY. Match. Gravity. Created by. Ilundell. Key Concepts: Terms in this set (17) discrete random variables. A rv whose possible values either constitute a finite set or else can be listed in an infinite sequence in which there is a ...

## **Chapter 3 Discrete Random Variables & Probability ...**

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Random Variables (Discrete Case) 67

Example: Three balls are extracted from an urn containing 20 balls numbered from one to twenty. What is the probability that at least one of the three has a number 17 or higher. This question can easily be answered without random variables, but we will introduce a random variables for didactic reasons.

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## **Chapter 3 Random Variables (Discrete Case)**

chapter 3: discrete random variables and probability distributions 5 The R package discreteRV [Buja et al., 2015] allows for defining and working with discrete random variables in R. (It's pedagogically useful but R's supplied

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discrete random variable functions are more practical.)

```
suppressPackageStartupMessages( #  
Startup messages are ...
```

## **Chapter 3: Discrete Random Variables and Probability ...**

Chapter 3 Discrete Random Variables  
and Probability Distributions Part 4: More

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of the Common Discrete Random  
Variable Distributions Sections 3.6 & 3.7  
Geometric, Negative Binomial,  
Hypergeometric NOTE: The discrete  
Poisson distribution (Section 3.8) will be  
on midterm exam 2, not midterm exam  
1. 1/28

## **Chapter 3 Discrete Random**



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## **Variables and Probability ...**

Chapter 3 Discrete Random Variables  
and Probability Distributions Part 2:  
Mean and Variance of a Discrete  
Random Variable Section 3.3 1/16.  
Discrete Random Variable - Expected  
Value In a random experiment, there are  
a variety of possible outcomes. Some  
outcomes may be more likely than

# File Type PDF Chapter 3 Discrete Random Variable And Probability others.

## **Chapter 3 Discrete Random Variables and Probability ...**

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Learn faster with spaced repetition.

## **Chapter 3: Discrete Random Variables and Probability ...**

Chapter 3 Discrete Random Variables

“When you flip a coin, there is a very small but finite chance you will never ever see that coin again.” - Scott Edward Shjefte. We are currently in the process

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of editing Probability! and welcome your  
input.

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