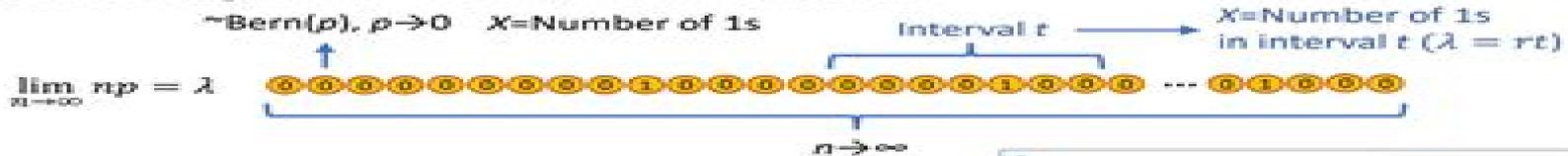


Poisson distribution

(Univariate-Discrete)

Parameters: λ ($\lambda > 0$) Denoted by: $X \sim \text{Pois}(\lambda)$

Story: The Poisson distribution is a limiting case of the binomial distribution when the number of trials n tends to infinity and p tends to zero while the product $np = \lambda$ remains constant. The parameter λ is also the mean of the distribution, so it gives the average number of the successful events. We can also write $\lambda = rt$ where r is the average rate and t is the time interval for that. Here λ gives the average number of events in the time interval t .

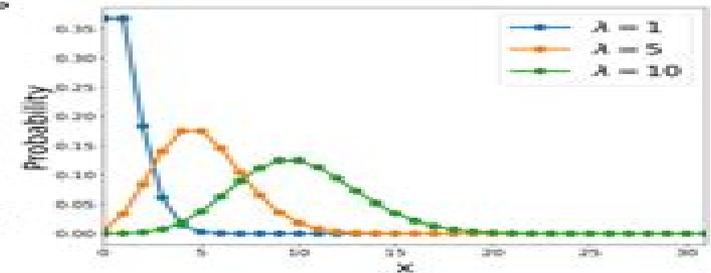


PMF:
$$p_X(x) = \begin{cases} \frac{\lambda^x e^{-\lambda}}{x!} & \text{for } x = 0, 1, 2, \dots \\ 0 & \text{otherwise} \end{cases}$$

Mean: λ

Variance: λ

Related distributions: The Poisson distribution is a limiting case of the binomial distribution when the number of trials n tends to infinity and p tends to zero while the product $np = \lambda$ remains constant.



Uniform distribution

(Univariate-Discrete)

Parameters: a, b ($a, b \in \mathbb{Z}$) Denoted by: $X \sim \text{DU}(a, b)$

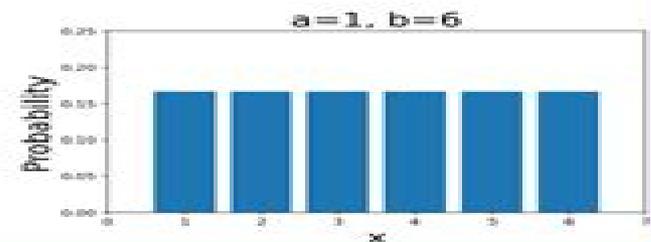
Story: A random variable X with a discrete uniform distribution with parameters a and b can take each of the integers $a, a+1, \dots, b$ with equal probability. So, it is a probability distribution where all outcomes have an equal chance of occurring.

PMF:

$$p_X(x) = \begin{cases} \frac{1}{b - a + 1} & \text{for } x = a, a + 1, \dots, b \\ 0 & \text{otherwise} \end{cases}$$

Mean: $(a+b)/2$

Variance: $\frac{(b-a+1)^2 - 1}{12}$



Uniform distribution

(Univariate-Continuous)

Parameters: a, b Denoted by: $X \sim U(a, b)$

Story: If the random variable X has a continuous uniform distribution with the parameters a and b , then for every subinterval of $[a, b]$, the probability that X belongs to that subinterval is proportional to the length of that subinterval, and all intervals of the same length are equally probable.

Probability Statistics With Applications Solution

Shasha Hu



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Maxwell,2010 This text is listed on the Course of Reading for SOA Exam P and for the CAS Exam ST Probability and Statistics with Applications A Problem Solving Text is an introductory textbook designed to make the subject accessible to college freshmen and sophomores concurrent with their study of calculus The book provides the content to serve as the primary text for a standard two semester advanced undergraduate course in mathematical probability and statistics It is organized specifically to meet the needs of students who are preparing for the Society of Actuaries and Casualty Actuarial Society qualifying examination P 1 and the statistics component of CAS Exam 3L Sample actuarial exam problems are integrated throughout the text along with an abundance of illustrative examples and 799 exercises The chapters on mathematical statistics cover all of the learning objectives for the statistics portion of the Casualty Actuarial Society Exam ST syllabus Here again liberal use is made of past exam problems from CAS Exams 3 and 3L A separate solutions manual for the text exercises is also available

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