

CHAPTER 6

6. RANDOM VARIABLES AND PROBABILITY DISTRIBUTIONS

6.1 Definitions of random variable and probability distributions

Definition: A *random variable* is a numerical description of the outcomes of the experiment or a numerical valued function defined on sample space, usually denoted by capital letters.

Example: If X is a random variable, then it is a function from the elements of the sample space to the set of real numbers. i.e.

X is a function $X: S \rightarrow R$

→ A random variable takes a possible outcome and assigns a number to it.

Example: Flip a coin three times, let X be the number of heads in three tosses.

$$\begin{aligned} \Rightarrow S &= \{(HHH), (HHT), (HTH), (HTT), (THH), (THT), (TTH), (TTT)\} \\ \Rightarrow X(HHH) &= 3, \quad X(HHT) = X(HTH) = X(THH) = 2, \\ X(HTT) &= X(THT) = X(TTH) = 1 \\ X(TTT) &= 0 \end{aligned}$$

$$X = \{0, 1, 2, 3\}$$

→ X assumes a specific number of values with some probabilities.

Random variables are of two types:

1. *Discrete random variable:* are variables which can assume only a specific number of values. They have values that can be counted

Examples:

- Toss coin n times and count the number of heads.
- Number of children in a family.
- Number of car accidents per week.
- Number of defective items in a given company.
- Number of bacteria per two cubic centimeter of water.

Chapter 6 Random Variables Continuous Case

Saeed Ghahramani



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