Reliability Stat 1

F(+) = CDF = COMULATIVE DISTRIBUTION FUNCTION

PC+) = PDF = PROBABILITY DENSITY FUNCTION

h(+) = HAZARD RATE

E(T) = M = EXPECTED VALUE

R(+) = RELIABILITY = SURVIVAL FUNCTION

= 1 - F(+) = 1 - SPDF

 $h(t) = \frac{P(t)}{R(t)} = \frac{P\Delta F}{1-C\Delta F} = \frac{P\Delta F}{1-SP\Delta F}$

THE DRIVATIVE OF CDF IS PDF

*PDF = CDF1 *CDF = SPDF

USER LOSTNESS
$$L = \left[\left(\frac{N}{S-1} \right)^2 + \left(\frac{R}{N-1} \right)^2 \right]^{1/2}$$

$$L = \left[\left(\frac{N}{S-1} \right)^2 + \left(\frac{R}{N-1} \right)^2 \right]^{1/2}$$

N: Number of different screensvisited during task 5: Total number of screensvisited during task R: Minimum number of screens must visited to complete a task 1 user lostness (straggele) to complete task

HMI Accuracy and Precision

Accuracy is how close agiven set of measuments (observation or readings) are to their true

Precision is how close the measurements are to each other.

Accuracy Farm.

Percentage error = I Measured Value_True Value X/00

True Value True Value = M

Precision Form.

Precision = M + Average deviation

is to Find the optimal way to Fit a distribution The Meason, to Fit distribution to data , it can be easier to work with, and it's also more general - it applies to every experiment of the same type.



