Simulation Description:

Checking performance of Poisson régressian

als total

100

1000

10000

ייינעשאל

seed

Data Generation (All Settings)

$$X \sim Norm(0,1)$$
 $B = \begin{bmatrix} 1 \\ 2 \\ 3 \end{bmatrix}$
 $X \sim Norm(0,1)$ $R = exp(B^{T}data)$

Yu Pois (1) dolais [1x2]

Data Generation (Variations) X* 用: = X

X* #2: = X+ rnorm(0,1) X* #3: = X + Z + cnorm(0.1)

X## Y= XZ+ rnorn(0,1)

Xx \$5: = x + [nor-(mean(2), 1)

Methods Considered

regular Poisson regression

Assumptions

Xx is fully observed

model is correctly Specified (ie Poisson) independence of observation

Estimands

true values

 $\beta = \begin{bmatrix} \frac{1}{2} \end{bmatrix}$

Starting Values

B= [2,3,47 [

What to Save From Each Replication

error setting B components SE(B) components

How to Summarize Performance

·histogram of

Brean . Stream

· Bsd .SEsd

What We Expect to See

X*1: 25 n-7, good -> great

X*2: bid X*3-5: worse 21 14?