Universidade Estadual de Campinas
Métodos Estatísticos Aplicados à Ciências Biológicas

Modelos de Fragilidade Gama e Lognormal

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1 Introdução

Your introduction goes here! Some examples of commonly used commands and features are listed below, to help you get started. If you have a question, please use the help menu ("?") on the top bar to search for help or ask us a question.

2 Objetivos

3 Modelos de Fragilidade

3.1 Conceitos

First you have to upload the image file from your computer using the upload link the project menu. Then use the includegraphics command to include it in your document. Use the figure environment and the caption command to add a number and a caption to your figure. See the code for Figure in this section for an example.

3.2 Gama

Graças a sua conveniência algébrica, a distribuição gama é muito utilizada para modelar variáveis de fragilidade. Seja Z_t tal variável, define-se que $E\left(Z_t\right) = 1$ e $Var\left(Z_t\right) = \xi$. Logo $Z_t \sim \Gamma\left(\frac{1}{\xi}, \frac{1}{\xi}\right)$ com função densidade de probabilidade dada por:

$$f_Z\left(z\right) = \frac{\left(\frac{1}{\xi}\right)^{\frac{1}{\xi}}}{\Gamma\left(\frac{1}{\xi}\right)} z^{\frac{1}{\xi}-1} e^{-\frac{z}{\xi}}$$

O modelo de fragilidade Gama é definido como:

$$\lambda_{ij}\left(t\right) = z_j \lambda_0\left(t\right) e^{x'_{ij}\beta}$$

3.2.1 Parâmetros

Comments can be added to your project by clicking on the comment icon in the toolbar above. To reply to a comment, simply click the reply button in the lower right corner of the comment, and you can close them when you're done.

Comments can also be added to the margins of the compiled PDF using the todo command, as shown in the example on the right. You can also add inline comments:

This is an inline comment.

Here's a comment in the margin!

3.3 Lognormal

3.3.1 Parâmetros

Use the table and tabular commands for basic tables — see Table 1, for example.

Item	Quantity
Widgets	42
Gadgets	13

Tabela 1: An example table.

3.4 Seleção de Modelos

LaTeX is great at typesetting mathematics. Let $X_1, X_2, \ldots, X_n$ be a sequence of independent and identically distributed random variables with $\mathrm{E}[X_i] = \mu$ and $\mathrm{Var}[X_i] = \sigma^2 < \infty$, and let

$$S_n = \frac{X_1 + X_2 + \cdots + X_n}{n} = \frac{1}{n}\sum_{i}^{n} X_i$$

denote their mean. Then as n approaches infinity, the random variables $\sqrt{n}(S_n - \mu)$ converge in distribution to a normal $\mathcal{N}(0, \sigma^2)$.

3.5 Aplicações

Use section and subsections to organize your document. Simply use the section and subsection buttons in the toolbar to create them, and we'll handle all the formatting and numbering automatically.

3.6 Modelo Final

You can make lists with automatic numbering ...

1. Like this,
2. and like this.

... or bullet points ...

- Like this,
- and like this.

3.7 Conclusão

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