

Distribusi Beta-Burr Tipe X = Beta-Burr Type X Distribution

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Abstrak

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Distribusi Beta-Burr Tipe X merupakan distribusi kontinu yang mampu memodelkan beberapa jenis distribusi dari data, seperti right skewed, left skewed, atau symmetrical. Distribusi Beta-Burr Tipe X merupakan hasil penggabungan dari fungsi distribusi beta dengan fungsi distribusi Tipe X Burr. Pembentukan distribusi Beta-Burr Tipe X, serta karakteristik distribusi Beta-Burr Tipe X yang meliputi fungsi densitas probabilitas, fungsi distribusi, momen ke - , momen pusat ke-, mean, varians, dan fungsi pembangkit momen dibahas dalam tesis ini. Estimasi parameter distribusi Beta-Burr Tipe X menggunakan metode kemungkinan maksimum dan hasilnya dapat diperoleh dengan metode numerik. Sebagai ilustrasi, data hormon luteinizing digunakan dalam sampel darah wanita yang dimodelkan dengan distribusi Beta-Burr Tipe X.

ABSTRACT

Beta-Burr Distribution Type X is a continuous distribution that is able to model several types of distributions from the data, such as right skewed, left skewed, or symmetrical. The Type X Beta-Burr distribution is the result of combining the beta distribution function with the Type X Burr distribution function. The formation of the Type X Beta-Burr distribution, as well as the characteristics of the Type X Beta-Burr distribution which include the probability density function, distribution function, th moment, th center moment, mean, variance, and moment generating function are discussed in this thesis. The parameter estimation of Beta-Burr Type X distribution uses the maximum likelihood method and the results can be obtained by numerical methods. To illustrate, luteinizing hormone data were used in a female blood sample modeled with a Type X Beta-Burr distribution.