



Análisis comparativo de tres distribuciones trapezoidales [

Asociación Española de Profesores Universitarios de Matemáticas para la Economía y la Empresa (ASEPUMA),
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text (article)

Analítica

On the basis of trapezoidal probability distribution $T_p(A, M1, M2, B)$, used as a model in many and varied probabilistic problems, and using the three typical subjective estimates of the PERT method, about minimum, maximum, and most likely values of a variable, there are determined three different trapezoidal distributions: Callejón, Pérez y Ramos (1996), Vivo y Franco (2006), y Herrerías y Herrerías (2009). The main objective of this work is to make a comparative analysis between these three distributions, using its stochastic characteristics, to select which best suits the real problem: prediction of the duration of a work, selection of the most profitable investment, valuation of an asset, etc. Subsequently, highlights some of the peculiarities of these distributions that can be an advantage in comparison with some distributions that have been used, such as probabilistic models in the PERT method, such as the triangular distribution and the beta distribution

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