/ Exam





ISM-E1004 - Business Analytics 2, Lecture, 8.1.2024-19.2.2024

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To make sure all answers are saved always finish your attempt before time is up! Time left 2:52:13

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Question 1 Flag question Marked out of 9.00 Complete The following list contains statements that are either true or false. Which of the statements are true? Grading: each incorrect answer eliminates the points of one correct answer. Select one or more: A certain optimisation problem has a convex objective function and its decision variables are integer valued. Such an optimisation problem is classified as a convex problem. The Expected Value of Sample Information cannot be larger than the Expected Value of Perfect Information. The Law of Total Probability relates marginal probabilities to conditional probabilities. ■ Multiattribute Value Theory (MAVT) always assigns equal weigths to all attributes. The independence axiom of Expected Utility Theory (EUT) is based on empirical observations of how people will choose in different situations. If X dominates Y in the sense of First-degree Stochastic Dominance and Y dominates Z in the sense of First-degree Stochastic Dominance, then Z dominates X in the sense of First-degree Stochastic Dominance. The Conditional Value-at-Risk measure $CVaR_{\alpha}[X]$ describes the expected value of random variable X on the condition that this value is lower than or equal to $VaR_{\alpha}[X]$. A decision maker with a strictly convex utility function is classified as risk-seeking in the sense of Expected Utility Theory. If X dominates Y in the sense of First-degree Stochastic Dominance, then the cumulative distribution function of X can be strictly above the cumulative distribution function of Y at some points. For a decision maker with a linear utility function, the certainty equivalent of a random variable equals the expected value of the random variable. The cumulative distribution function $F_X(x)$ denotes the probability that the value of random variable X is greater than or equal to x.

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Value-at-Risk 10% for a normally distributed random variable does not depend on the mean of the random variable, only on its variance.

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