

Distribusi transmuted exponentiated exponential = Transmuted exponentiated exponential distribution

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Abstrak

Distribusi Transmuted Exponentiated Exponential merupakan generalisasi dari distribusi Exponentiated Exponential yang dibentuk dengan menggunakan metode quadratic rank transmutation maps (QRTM). Distribusi Transmuted Exponentiated Exponential merupakan salah satu distribusi kontinu yang mampu memodelkan data dengan hazard rate naik, turun, bathtub, dan non-monoton. Pada tugas akhir ini akan dibahas konstruksi dari distribusi Transmuted Exponentiated Exponential. Karakteristik-karakteristik distribusi yang meliputi fungsi kepadatan probabilitas, fungsi distribusi, dan hazard rate dari distribusi Transmuted Exponentiated Exponential juga dijelaskan lebih lanjut. Pada bagian akhir, diberikan suatu aplikasi dari distribusi Transmuted Exponentiated Exponential pada suatu data lifetime.

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Transmuted Exponentiated Exponential distribution is a generalization of Exponentiated Exponential distribution which formed using a method called quadratic rank transmutation maps (QRTM). Transmuted Exponentiated Exponential distribution is a continued distribution which can model increasing, decreasing, bathtub, and non-monotone hazard rate. In this paper, it will be explained how to form Transmuted Exponentiated Exponential distribution. Characteristics of distribution such as, probability density function, distribution function, and hazard rate of Transmuted Exponentiated Exponential distribution will be explained further. Finally, a set of lifetime data will be analyzed using Transmuted Exponentiated Exponential distribution as an illustration.