

Convex Functions Partial Orderings And Statistical Applications

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Convex Functions Partial Orderings And

Presents classical and newly published results on convex functions and related inequalities; Explains partial ordering based on arrangement and their applications in mathematics, probability, statistics, and reliability; Demonstrates the connection of partial ordering with other well-known orderings such as majorization and Schur functions

Convex Functions, Partial Orderings, and Statistical ...

Convex Functions, Partial Orderings, and Statistical Applications (Mathematics in Science & Engineering) 1st Edition by Josip E. Peajcariac (Author), Y. L. Tong (Author) ISBN-13: 978-0125492508

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In the case of convex functions of several variables (multivariate convex functions) we have. $f' + (x_0) = (f'_1 + (x_0), \dots, f'_n + (x_0))$, where f'_1, \dots, f'_n are the right-hand partial derivatives of f . In this case (1.30) and (1.31) become. (1.32) $f(x) - f(x_0) \geq \sum f'_i(x_0)(x_i - x_{i0})$, and.

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- Presents classical and newly published results on convex functions and related inequalities- Explains partial ordering based on arrangement and their applications in mathematics, probability, statistics, and reliability- Demonstrates the connection of partial ordering with other well-known orderings such as majorization and Schur functions- Will generate further research and applications

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In mathematics, a Schur-convex function, also known as S-convex, isotonic function and order-preserving function is a function $f: \mathbb{R}^d \rightarrow \mathbb{R}$ that for all $x, y \in \mathbb{R}^d$ such that x is majorized by y , one has that $f(x) \leq f(y)$. Named

after Issai Schur, Schur-convex functions are used in the study of majorization. Every ...

Schur-convex function - Wikipedia

Presents information concerning developments in convex functions and partial orderings and some applications in mathematics, statistics, and reliability theory. This book explains partial ordering based on arrangement and their applications in mathematics, probability, statistics, and reliability.

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J. Pečarić, F. Proschan and Y.L. Tong, Convex functions, partial ordering and statistical applications, Academic Press, New York, 1991. has been cited by the following article: Article. On The Hermite- Hadamard-Fejér Type Integral Inequality for Convex Function.

J. Pečarić, F. Proschan and Y.L. Tong, Convex functions ...

for all $x, y \in \text{dom } f$ and $0 < \theta < 1$. Examples of log-concave functions are the 0-1 indicator functions of convex sets (which requires the more flexible definition), and the Gaussian function. Similarly, a function is log-convex if it satisfies the reverse inequality. $f(\theta x + (1 - \theta)y) \leq f(x)^\theta f(y)^{1 - \theta}$.

Logarithmically concave function - Wikipedia

J. E. Pečarić, F. Proschan and Y. L. Tong: Convex Functions, Partial Orderings, and Statistical Applications, Academic Press Inc., 1992. has been cited by the following article: Article. On Some Inequalities for Functions Whose Second Derivatives Absolute Values Are S-Geometrically Convex.

J. E. Pečarić, F. Proschan and Y. L. Tong: Convex ...

Convexity of S is defined with respect to closed cone partial orderings, or more general binary relations, on the range of f . Two different methods of proof are given, one based on geometric properties of convex sets and the other based on the Strong Law of Large Numbers.

Jensen's Inequality for a Convex Vector-Valued Function on D .

Convex functions play an important role in many branches of mathematics, as well as other areas of science and engineering. The present text is aimed to a thorough introduction to contemporary convex function theory, which entails a powerful and elegant interaction between analysis and geometry.

Convex Functions and their Applications - A Contemporary ...

(Dragomir 2001; Dragomir and Pearce 2000) A function $f: \Delta = [a, b] \times [c, d] \subseteq \mathbb{R}^2 \rightarrow \mathbb{R}$ is said to be convex on co-ordinates on Δ if the partial functions $f_y: [a, b] \rightarrow \mathbb{R}$, $f_y(u) = f(u, y)$ and $f_x: [c, d] \rightarrow \mathbb{R}$, $f_x(v) = f(x, v)$

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