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Operations Research 10B: Hessian Matrix, Convex \u0026 Concave Functions

Machine Learning Fundamentals - 5.4 - Convexity I Subgradients of Convex Functions - Pt 1 ~~17 - Convex functions~~ *Lecture 17(B): Concave and Convex Functions Lecture 17(A): Concave and Convex Functions* Lecture 2 | Convex Sets | Convex Optimization by Dr. Ahmad Bazzi *Lecture 4-5: Convex sets and functions* ~~Lecture 3 | Convex Optimization I (Stanford)~~ **Quasi Concave and Quasi Convex Functions** ~~Moon Phases Demonstration~~ *Linear Regression - Fun and Easy Machine Learning* ~~2. Airplane Aerodynamics~~ *Derivatives... How? (NancyPi) difference between convex and concave functions* Lecture 1 | Convex Optimization | Introduction by Dr. Ahmad Bazzi

Definition of Quasi-concavity*How to Find Concavity in Calculus : Calculus Explained* ~~How I learned math~~ Convex Optimisation - 3.2 - Convex Functions 2 **Operations Research 03F: Convex Set \u0026 Convex Function** *Convex Sets and Functions*

Properties of Convex Functions-I*Lecture 2 | Convex Optimization I (Stanford) [W2-2] strongly convex function and smooth convex function Convex optimization*

Properties of Convex Functions- III

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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), …, f ? n + (x 0)), where f1+ ?,…, fn+ are the right-hand partial derivatives of f. In this case (1.30) and (1.31) become. (1.32) f (x) ? f (x 0) ? ? f ? + (x 0), x ? x 0 ?, and.

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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: R d ? R {\displaystyle f:\mathbb {R} ^{d}\rightarrow \mathbb {R} } that for all x, y ? R d {\displaystyle x,y\in \mathbb {R} ^{d}} such that x {\displaystyle x} is majorized by y {\displaystyle y}, one has that f (x) ? f (y) {\displaystyle f(x)\leq f(y)}. Named after Issai Schur, Schur-convex functions are used in the study of majorization. Every ...

Schur-convex function - Wikipedia

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for all x,y ? dom f and 0 < ? < 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 (? x + (1 ? ?) y) ? f (x) ? f (y) 1 ? ?.

Logarithmically concave function - Wikipedia

Convexity of S is defined with respect to closed cone partial orderings, or more general binary relations, on the range off. 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.

This research-level book presents up-to-date information concerning recent developments in convex functions and partial orderings and some applications in mathematics, statistics, and reliability theory. The book will serve researchers in mathematical and statistical theory and theoretical and applied reliabilists. Presents classical and newly published results on convex functions and related inequalities Explains partial ordering based on arrangement and their applications in mathematics, probability, statsitics, 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

This two-volume work introduces the theory and applications of Schur-convex functions. The second volume mainly focuses on the application of Schur-convex functions in sequences inequalities, integral inequalities, mean value inequalities for two variables, mean value inequalities for multi-variables, and in geometric inequalities.

Thorough introduction to an important area of mathematics Contains recent results Includes many exercises

This book provides new contributions to the theory of inequalities for integral and sum, and includes four chapters. In the first chapter, linear inequalities via interpolation polynomials and green functions are discussed. New results related to Popoviciu type linear inequalities via extension of the Montgomery identity, the Taylor formula, Abel-Gontscharoff's interpolation polynomials, Hermite interpolation polynomials and the Fink identity with Green's functions, are presented. The second chapter is dedicated to Ostrowski's inequality and results with applications to numerical integration and probability theory. The third chapter deals with results involving functions with nondecreasing increments. Real life applications are discussed, as well as and connection of functions with nondecreasing increments together with many important concepts including arithmetic integral mean, wright convex functions, convex functions, nabla-convex functions, Jensen m-convex functions, m-convex functions, m-nabla-convex functions, k-monotonic functions, absolutely monotonic functions, completely monotonic functions, Laplace transform and exponentially convex functions, by using the finite difference operator of order m. The fourth chapter is mainly based on Popoviciu and Cebysev-Popoviciu type identities and inequalities. In this last chapter, the authors present results by using delta and nabla operators of higher order.

As Richard Bellman has so elegantly stated at the Second International Conference on General Inequalities (Oberwolfach, 1978), “There are three reasons for the study of inequalities: practical, theoretical, and aesthetic.” On the aesthetic aspects, he said, “As has been pointed out, beauty is in the eye of the beholder. However, it is generally agreed that certain pieces of music, art, or mathematics are beautiful. There is an elegance to inequalities that makes them very attractive.” The content of the Handbook focuses mainly on both old and recent developments on approximate homomorphisms, on a relation between the Hardy–Hilbert and the Gabriel inequality, generalized Hardy–Hilbert type inequalities on multiple weighted Orlicz spaces, half-discrete Hilbert-type inequalities, on affine mappings, on contractive operators, on multiplicative Ostrowski and trapezoid inequalities, Ostrowski type inequalities for the Riemann–Stieltjes integral, means and related functional inequalities, Weighted Gini means, controlled additive relations, Szasz–Mirakyan operators, extremal problems in polynomials and entire functions, applications of functional equations to Dirichlet problem for doubly connected domains, nonlinear elliptic problems depending on parameters, on strongly convex functions, as well as applications to some new algorithms for solving general equilibrium problems, inequalities for the Fisher's information measures, financial networks, mathematical models of mechanical fields in media with inclusions and holes.

This book extends classical Hermite-Hadamard type inequalities to the fractional case via establishing fractional integral identities, and discusses Riemann-Liouville and Hadamard integrals, respectively, by various convex functions. Illustrating theoretical results via applications in special means of real numbers, it is an essential reference for applied mathematicians and engineers working with fractional calculus. Contents Introduction Preliminaries Fractional integral identities Hermite-Hadamard inequalities involving Riemann-Liouville fractional integrals Hermite-Hadamard inequalities involving Hadamard fractional integrals

This book constitutes the refereed proceedings of the 13th International Conference on Intelligent Computer Mathematics, CICM 2020, held in Bertinoro, Italy, in July 2020*. The 15 full papers, 1 invited paper and 2 abstracts of invited papers presented were carefully reviewed and selected from a total of 35 submissions. The papers focus on advances in automated theorem provers and formalization, computer algebra systems and their libraries, and applications of machine learning, among other topics. * The conference was held virtually due to the COVID-19 pandemic.

A variety of modern research in analysis and discrete mathematics is provided in this book along with applications in cryptographic methods and information security, in order to explore new techniques, methods, and problems for further investigation. Distinguished researchers and scientists in analysis and discrete mathematics present their research. Graduate students, scientists and engineers, interested in a broad spectrum of current theories, methods, and applications in interdisciplinary fields will find this book invaluable.

Although they play a fundamental role in nearly all branches of mathematics, inequalities are usually obtained by ad hoc methods rather than as consequences of some underlying "theory of inequalities." For certain kinds of inequalities, the notion of majorization leads to such a theory that is sometimes extremely useful and powerful for deriving inequalities. Moreover, the derivation of an inequality by methods of majorization is often very helpful both for providing a deeper understanding and for suggesting natural generalizations. Anyone wishing to employ majorization as a tool in applications can make use of the theorems; for the most part, their statements are easily understood.