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Mathematical analysis - Wikipedia

Title Authors Published Abstract Publication Details; Easy Email Encryption with Easy Key Management John S. Koh, Steven M. Bellovin, Jason Nieh

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Applications Statistics. In statistics, measures of central tendency and statistical dispersion, such as the mean, median, and standard deviation, are defined in terms of L p metrics, and measures of central tendency can be characterized as solutions to variational problems.. In penalized regression, 'L1 penalty' and 'L2 penalty' refer to penalizing either the L 1 norm of a solution's vector ...

Lp space - Wikipedia

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Main Text Introduction. The development of recombinant DNA technology in the 1970s marked the beginning of a new era for biology. For the first time, molecular biologists gained the ability to manipulate DNA molecules, making it possible to study genes and harness them to develop novel medicine and biotechnology.

Development and Applications of CRISPR-Cas9 for Genome

We consider the problem of differentiating a function specified by noisy data. Regularizing the differentiation process avoids the noise amplification of finite-difference methods. We use total-variation regularization, which allows for discontinuous solutions. The resulting simple algorithm accurately differentiates noisy functions, including those which have a discontinuous derivative.

Numerical Differentiation of Noisy, Nonsmooth Data

In addition to the low efficiency of editing using spontaneous homologous recombination, this approach could also induce undesired genome-editing events in which the exogenous DNA sequence was incorporated into the genome at random sites more frequently than at the desired locus (Lin et al., 1985).A key advance in overcoming this limitation was the observation, first in yeast and then in ...

CRISPR-Based Technologies for the Manipulation of

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