

Numerical Solution Of Ill Posed Cauchy File Type

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~~Rank Deficient and Discrete Ill-Posed Problems | Society ...~~

An ill-conditioned problem is indicated by a large condition number. If the problem is well-posed, then it stands a good chance of solution on a computer using a stable algorithm. If it is not well-posed, it needs to be re-formulated for numerical treatment. Typically this involves including additional assumptions, such as smoothness of solution. This process is known as regularization.

~~The Mollification Method and the Numerical Solution of Ill-Posed Problems | Mathematics and Its Applications: Numerical Methods for ...~~

Some form of regularization is always required in order to compute a stabilized solution to discrete ill-posed problems. The purpose of REGULARIZATION TOOLS is to provide the user with easy-to-use routines, based on numerical robust and efficient algorithms, for doing experiments with regularization of discrete ill-posed problems.

~~Mathematics and Its Applications: Numerical Methods for ...~~

The numerical solution of linear discrete ill-posed problems typically requires regularization, i.e., replacement of the available ill-conditioned problem by a nearby better conditioned one.

~~Ill-posed problems — Encyclopedia of Mathematics~~

Numerical methods for the approximate Solution of ill-posed problems on compact sets 65 1. Approximate Solution of ill-posed problems on compact sets 66 2. Some theorems regarding uniform approximation to the exact Solution of ill-posed problems 67 3. Some theorems about convex polyhedra in R^m 70 4.

~~Numerical Methods for the Solution of Ill-Posed Problems ...~~

ISSN 0345-7524. Ill-posed mathematical problem occur in many interesting scientific and engineering applications. The solution of such a problem, if it exists, may not depend continuously on the observed data. For computing a stable approximate solution it is necessary to apply a regularization method.

~~Numerical Solution Of Ill-Posed~~

Numerical Solution of Ill-Posed Problems In ill-posed problems, small changes in the data can cause arbitrarily large changes in the results. Although it would be nice to avoid such problems, they have important applications in medicine (computerized tomography), remote sensing (determining whether a nuclear reactor has a crack), and astronomy (image processing).

~~Regularization Tools — Technical University of Denmark~~

The author created the Mollification Method as a means of dealing with ill-posed problems. Although the presentation focuses on problems with origins in mechanical engineering, many of the ideas and techniques can be easily applied to a broad range of situations.

~~Numerical solution of an ill-posed Cauchy problem for a ...~~

Discrete ill-posed problems arise in connection with the numerical treatment of inverse problems, where one typically wants to compute information about some interior properties using exterior measurements.

~~Numerical Solution of Ill-Posed Problems~~

Numerical Methods for the Solution of Ill-Posed Problems (Mathematics and Its Applications) 1995th Edition by A.N. Tikhonov (Author), A. Goncharsky (Author), V.V. Stepanov (Author), Anatoly G.

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Yagola (Author) & 1 more

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Other ill-posed problems are the solution of systems of linear algebraic equations when the system is ill-conditioned; the minimization of functionals having non-convergent minimizing sequences; various problems in linear programming and optimal control; design of optimal systems and optimization of constructions (synthesis problems for antennas and other physical systems); and various other control problems described by differential equations (in particular, differential games).

~~Tikhonov regularization — Wikipedia~~

In addition to the analysis and solution routines, the package also includes 12 test problems. The package and the underlying theory is published in: P. C. Hansen, Regularization Tools: A Matlab package for analysis and solution of discrete ill-posed problems, Numerical Algorithms, 6 (1994), pp. 1-35.

~~REGULARIZATION TOOLS: A Matlab package for analysis and ...~~

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Discrete ill-posed problems arise in connection with the numerical treatment of inverse problems, where one typically wants to compute information about interior properties using exterior measurements. Examples of inverse problems are image restoration and tomography, where one needs to improve blurred images or reconstruct pictures from raw data.

~~Well-posed problem — Wikipedia~~

Tikhonov regularization, named for Andrey Tikhonov, is a method of regularization of ill-posed problems. Also known as ridge regression, it is particularly useful to mitigate the problem of multicollinearity in linear regression, which commonly occurs in models with large numbers of parameters.

~~Rank-deficient and discrete ill-posed problems : numerical ...~~

The topic of numerical solutions of ill-posed Cauchy problems for PDEs is very popular in the field of ill-posed problems. As some examples, we refer to, e.g. [1, 4, 5, 7, 8, 9, 10, 11, 16, 17, 18, 20, 23, 26, 30] and there are many more publications on this topic.

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