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Regularization Methods And Finite Element

2.1.2.4 Numerical computations and regularization in the finite-dimension setting. Most of the direct problems that are discussed in metal forming are solved with numerical methods. Thus, to solve an inverse problem, the regularization method should be established by the finite-dimension approximation procedure in the finite-dimension space. This regularization procedure most often consists of three main steps: discretization, transformation to the standard form, and the regularization of it.

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Regularization Method - an overview | ScienceDirect

Topics

The introduction of resolution-consistent regularization may pave the way for adaptive finite element methods (FEM) to be used for solving inverse problems. Despite its many successes in reducing complexity and enhancing efficiency for solving PDE-based forward problems, adaptive FEM has not yet been widely applied to inverse problems.

Finite-Element-Based Discretization and Regularization ...

An effective and reliable approach to updating finite element (FE) models of real structures is to utilize a sensitivity-based strategy. ... Both regularization methods are compared in a ...

(PDF) Regularisation methods for finite element model updating

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A traditional finite element method with only one additional assumption, namely, that the boundary of the subdomain with the small coefficient does not cut any finite element, is considered. One interpretation of our main theorem is in terms of regularization.

Lavrentiev regularization + ritz approximation = uniform

...

The introduction of resolution-consistent regularization may pave the way for adaptive finite element methods (FEM) to be used for solving inverse problems.

Regularization Methods And Finite Element Approximation Of ...

a delta-regularization finite element method for a double curl problem with divergence-free constraint huoyuan duan , sha li , roger c. e. tany, and weiyang zhengz abstract.

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A DELTA-REGULARIZATION FINITE ELEMENT METHOD FOR A DOUBLE ...

The corresponding vertical displacement responses at nodes 166510 and 109710 can be obtained by finite-element method. Its bottom is fixed, and other parts of hydrogenerator frame structure are free. Its corresponding finite-element model is shown in Figure 1. The action point of dynamic load is denoted by the arrow in Figure 1. In this ...

A new regularization method for dynamic load ...

A damped symplectic scheme, combined with the finite element method, is developed for the numerical implementation of SOAR, which yields a novel iterative regularization scheme for solving inverse source problems. Several numerical examples are given to show the accuracy and the acceleration effect of SOAR.

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Second order asymptotical regularization methods for ...

The extended finite element method (XFEM) is a numerical technique based on the generalized finite element method (GFEM) and the partition of unity method (PUM). It extends the classical finite element method by enriching the solution space for solutions to differential equations with discontinuous functions.

Finite element method - Wikipedia

p-FEM or the p-version of the finite element method is a numerical method for solving partial differential equations. It is a discretization strategy in which the finite element mesh is fixed and the polynomial degrees of elements are increased such that the lowest polynomial degree, denoted by p , approaches infinity. This is in contrast with the "h-version" or "h-FEM", a widely used ...

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p-FEM - Wikipedia

Fourier Transform Traction Cytometry (FTTC) is widely used to calculate tractions but has inherent limitations due to errors in the displacement fields; these are mitigated through a regularization parameter (γ) in the Reg-FTTC method. An alternate finite element (FE) approach computes tractions on a domain using known boundary conditions.

Traction cytometry: regularization in the Fourier approach ...

We describe the consistent linearization and discretization of the regularized image registration problem, in the framework of the finite elements method. The method is implemented using FEniCS & VTK, and distributed as a freely available python library.

Equilibrated warping: Finite element image registration

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RAIRO (9e année, août 1975, R-2, p 77-84) APPROXIMATION BY FINITE ELEMENT FUNCTIONS USING LOCAL REGULARIZATION (*) par Ph. CLÉMENT (I) Communicated by P G CIARLET Abstract The aim of this paper is to give an elementary proof of a theorem of approximation

Approximation by finite element functions using local ...

Bioluminescence tomography (BLT) is a promising tool for studying physiological and pathological processes at cellular and molecular levels. In most clinical or preclinical practices, fine discretization is needed for recovering sources with acceptable resolution when solving BLT with finite element method (FEM).

Sparse Regularization-Based Reconstruction for ...

The Regularized eXtended Finite Element Method (Rx-FEM) methodology is a discrete damage modeling (DDM) technique,

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which represents an approach to the progressive damage analysis (PDA) in laminated composites when multiple damage events such as matrix cracks and delamination are introduced into the model via the displacement discontinuities.

AN IMPLEMENTATION OF THE REGULARIZED EXTENDED FINITE ...

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Regularization Methods and Finite Element Approximation of ...

The inverse problem is formulated as a regularized output least squares problem. We consider two regularization functions. First, we derive a smoothness regularizer using a primal-dual mixed finite element formulation which generalizes the standard

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Laplacian operator for a piecewise constant conductivity model on unstructured meshes.

Finite element based inversion for time-harmonic ...

LAVRENTIEV REGULARIZATION + RITZ APPROXIMATION = UNIFORM FINITE ELEMENT ERROR ESTIMATES FOR DIFFERENTIAL EQUATIONS WITH ROUGH COEFFICIENTS ANDREW KNYAZEV AND OLOF WIDLUND Abstract. We consider a parametric family of boundary value problems for a diffusion equation with a diffusion coefficient equal to a small constant in a sub-domain.

LAVRENTIEV REGULARIZATION + RITZ APPROXIMATION = UNIFORM ...

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