Regularization Methods And Finite Element Approximation Of Hemivariational Inequalities With Applications To Nonmonotone Contact Problems

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Regularization Methods And Finite Element

Solving ill-posed control problems by stabilized finite ...
Tikhonov regularization is one of the most commonly used methods for the regularization of ill-posed problems In the setting of finite element solutions of elliptic partial differential control problems, Tikhonov regularization amounts to adding suitably weighted least squares terms of the control

A DELTA-REGULARIZATION FINITE ELEMENT METHOD FOR A ...
A DELTA-REGULARIZATION FINITE ELEMENT METHOD FOR A DOUBLE CURL PROBLEM WITH DIVERGENCE-FREE CONSTRAINT HUOYUAN DUAN , SHA LI , ROGER C E TANy, AND WEIYING ZHENGz Abstract To deal with the divergence-free constraint in a double curl problem: curl 1curlu = f …

Application of Multiplicative Regularization to the Finite ...
Application of Multiplicative Regularization to the Finite-Element Contrast Source Inversion Method Amer Zakaria and Joe LoVetri

Abstract—Multiplicative regularization is applied to the finite-element contrast source inversion (FEM-CSI) algorithm recently developed for microwave tomography It is described for the two-dimensional (2D) trans-

A Smooth Partition of Unity Finite Element Method for ...

A SMOOTH PARTITION OF UNITY FINITE ELEMENT METHOD FOR VORTEX PARTICLE REGULARIZATION MATTHIAS KIRCHHART ∗AND SHINNOSUKE OBI Abstract We present a new class of C∞-smooth finite element spaces on Cartesian grids, based on a partition of unity approach We use these spaces to construct smooth approximations of parti-

IEEE TRANSACTIONS ON BIOMEDICAL ENGINEERING, VOL. ...

Finite-Element-Based Discretization and Regularization Strategies for 3-D Inverse Electrocardiography Dafang Wang, Student Member, IEEE, Robert M Kirby, Member, IEEE, and Chris R Johnson∗ Abstract—We consider the inverse electrocardiographic prob-lem of computing epicardial potentials from a body-surface poten-tial map

Mechanical Regularization of Optical Flow: General ...

Mechanical Regularization of Optical Flow: General Framework Using Finite-Elements Petr Jordan Division of Engineering and Applied Sciences Harvard University, Cambridge, MA cannot be explicitly related to mechanical regularization Since these methods rely on local assumptions of

The Matrix Transform for Reconstruction on Finite-Element ...

Numerical Finite-element method (FEM) based algorithms have been widely applied for the re-construction of the photoacoustic image As compared with the traditional analytic methods, the FEM based methods can be easily used to deal with problems with irregularly shaped imaging domain

Non-Linear Finite Element Analysis of Solids and Structures

an improved focus on nonlinear finite element programs and rigorous treatment Non linear finite element analysis we, would like He she develop an improved layout and the latest technology including However the department of nonlinear finite element technology and regularization methods The reader is also include examples and procedures non

Finite element model updating of Canton Tower using ...

Finite element model updating of Canton Tower using regularization technique463 (4) where A is the discrete state matrix, C is the discrete observation matrix

An Interior Constraint BEM for Regularization of Problems ...

regularization methods of Interior-Constraint Boundary Element techniques for elastostatic analysis with improper boundary supports In the proposed method rigid body modes are eliminated by imposing constrains on the interior Finite Element Method (FEM) …

ADAPTIVE FINITE ELEMENT RELAXATION SCHEMES FOR ...

Finite element methods for Hyperbolic Conservation Laws have been proposed and analyzed in the past, eg, by Johnson and Szepessy [25,26,45,49], Cockburn and Shou [13,15,16], see the survey articles by Cockburn and Johnson in [14] In the streamline di usion method of [25,49] arti cial di usion has been added in the direction

REGULARIZATION METHODS FOR THE NUMERICAL ...

locally (namely at each grid point of a finite element triangulation) The treatment of the sup- norm is achieved with a duality approach that has already been successfully applied in [17] In a second part, we will address a L2-regularization of problem (11) and compare with the previous approach Namely, for 7 > 0, we look for a solution of

Finite-Element Model Updating Using Experimental Test Data ...

Finite-element model updating using experimental test data: parametrization and regularization BY MICHAEL I FRISWELL1, JOHN E MOTTERSHEAD2 AND HAMID AHMADIAN3 1Department of Mechanical Engineering, University of Wales Swansea, Swansea SA2 8PP, UK 2Department of Engineering, University of Liverpool, Liverpool L69 3BX, UK

Finite Element Refinements for Inverse Electrocardiography ...

be combined with other classical regularization methods to further improve the inverse solution accuracy II FEM, HYBRID ELEMENTS AND LINEAR TRUNCATION A Finite Element Discretization In a theoretical FEM approach, the potential field u(x) can be decomposed into u(x) = v(x) + w(x) where w(x) satisfies boundary conditions (2) and (3) and v(x

ADAPTIVE FINITE ELEMENT MODELING TECHNIQUES FOR THE ...

While we focus on (adaptive) finite element methods in this article, the splitting frame-work we describe can be incorporated into finite difference, finite volume, spectral, wavelet, finite element, or boundary element methods for the PBE While the finite el-ement method has the advantage of exactly representing the molecular surface (when

RECENT DEVELOPMENTS IN THE FIELD- BOUNDARY ELEMENT ...

to small and finite strain elastoplasticity The third topic in this paper is a new field-boundary element method for the analysis of a class of problems of finite strain elastoplasticity, that involve bifurcation phenomena in the solution path such as the buckling of a beam-column, diffused

Regularization fast multipole boundary element method for ...

Regularization fast multipole boundary element method for potential flow problems in 3D vortex method Jie Zhai1,2, Baoshan Zhu1 & Shuliang Cao1 1State Key Laboratory of Hydro Science Engineering,

Finite Element Discretization Strategies for the Inverse ...

Finite Element Discretization Strategies for the Inverse Electrocardiographic (ECG) Problem Dafang Wang, Robert M Kirby and Chris R Johnson Scientific Computing and Imaging Institute, University of Utah, USA Regularization Methods and Parameter Selection