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## Robust Smoothers For High Order Discontinuous Galerkin

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The multigrid method for discontinuous Galerkin (DG) discretizations of advection-diffusion problems is presented. It is based on a block Gauss-Seidel smoother with downwind ordering honoring the advection operator. The cell matrices of the DG scheme are inverted in this smoother in order to obtain robustness for higher order elements.

Robust smoothers for high-order discontinuous Galerkin ...

are inverted in this smoother in order to obtain robustness for higher order elements. Employing a set of experiments, we show that this technique actually yields an efficient preconditioner and that both ingredients, downwind ordering and blocking of cell matrices are crucial for robustness. © 2007 Elsevier B.V. All rights reserved. MSC: 65M55; 74S05

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Galerkin discretizations of advection-diffusion problems Guido Kanschat Texas A&M University, Department of Mathematics, College Station, TX 77843-3368 Abstract The multigrid method for discontinuous Galerkin discretizations of advection-diffusion problems is presented.

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The multigrid method for discontinuous Galerkin (DG) discretizations of advection-diffusion problems is presented. It is based on a block Gauss-Seidel smoother with downwind ordering honoring the advection operator. The cell matrices of the DG scheme are inverted in this smoother in order to obtain robustness for higher order elements.

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Kanschat. "Robust smoothers for high-order discontinuous Galerkin discretizations of advection-diffusion problems". 2008. Antonietti et al. "A uniform additive Schwarz preconditioner for high-order discontinuous Galerkin approximations of elliptic problems". 2017.

A multilevel algebraic error estimator and the ... Robust smoothers are then obtained using robust filters as building blocks, just as optimal linear smoothers are built in one of two ways using optimal linear filters as building blocks (Meditch, 1967; Fraser and Potter, 1969).

## ROBUST FILTERS AND SMOOTHERS: DEFINITION AND DESIGN

Then the smoothed process  $Z$  can be defined by the property that it minimizes  $\text{ave} \{R(Ct - Z)\} + 2b \int \text{ave} \{Z\}^2$ . (1.4)  $2b \int$  is a Lagrange multiplier, regulating the degree of smoothness. PETER J. HUBER

## Robust Smoothing - ScienceDirect

Higher Order CRFs Higher order random fields are not new to computer vision. They have been frequently used to model image textures [18, 20, 24]. The initial work in this regard has been quite promising and higher order CRFs have been shown to improve results for problems such as image denoising and restoration [24], and texture segmentation [13].

Robust Higher Order Potentials for Enforcing Label

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Consistency

Robust smoothers for high-order discontinuous Galerkin discretizations of advection-diffusion problems Article in Journal of Computational and Applied Mathematics 218(1):53-60 · August 2008 ...

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Robust smoothers for high-order discontinuous Galerkin discretizations of advection-diffusion problems

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By robust I mean: Effective for high order approximations (say spectral element, spectral Discontinuous Galerkin), Parallel (suitable for co-processors), Effective for heterogeneity and anisotropy problems. From what I can gather, Schwarz type smoothers may be promising (Fischer et al); and block/line/ plane, and ILU smoothers are also recommended (Trottenberg et al).

linear algebra - Robust smoothers for geometric multigrid ...

This paper defines some robust nonlinear smoothers that have performed well in Monte-Carlo trials and makes brief recommendations based upon that study. ... They are high order polynomial fitting ...

Robust nonlinear data smoothers: Definition and ...  
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Robust nonlinear data smoothers: definitions and ...

The robust smoothing splines from `qsreg` function provides a default smoothing parameter selection method using pseudo-data, based on results in Cox (1983). The implementation is done via generalized cross validation (GCV) with empirical pseudo-data, and the reader is referred to Oh et al. (2004, 2007) for details.

Robust Smoothing: Smoothing Parameter Selection and ...

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We propose two nonlinear Kalman smoothers that rely on Student's  $t$  distributions. The T-Robust smoother finds the maximum a posteriori likelihood (MAP) solution for Gaussian process noise and Student's  $t$  observation noise, and is extremely robust against outliers, outperforming the recently proposed l1-Laplace smoother in extreme situations (e.g. 50% or more outliers). The second estimator ...

Robust and Trend-following Kalman Smoothers using Student's  $t$

10/24/19 - In this article, we discuss the efficient implementation of powerful domain decomposition smoothers for multigrid methods for high...

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