

# Five Dimensional Interpolation New Directions And Challenges

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### Five Dimensional Interpolation New Directions

#### **Five-dimensional interpolation: New directions and challenges**

Five-dimensional interpolation: New directions and challenges Daniel Trad CGG, CALGARY, ALBERTA, CANADA Coordinated by Mike Perz\* / Mostafa Naghizadeh Five- dimensional (5D) interpolation has been in the industry for almost ten years now, and has become widely accepted and used There are now a variety of implementations, with

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#### **Five Dimensional Interpolation:exploring different Fourier ...**

Five Dimensional Interpolation:exploring different Fourier operators Daniel Trad CREWES-University of Calgary Summary Five-Dimensional interpolation has become a very popular method to pre-condition data for migration Many different implementations have been developed in the last decade, most of them sharing a similar dataflow and principles

#### **Five Dimensional Interpolation: Recovering from ...**

Five Dimensional Interpolation: Recovering from acquisition constraints By Daniel Trad Sparse acquisitions present problems for seismic processing and migration that impact the final image used in interpretation CGGVeritas has developed 5D Interpolation, a multidimensional interpolator to predict new shots and receivers at desired locations while

**5-D Interpolation Compensates for Poor Sampling; #41504 ...**

Five-dimensional (5-D) interpolation is a wide umbrella covering methods that simultaneously interpolate all space dimensions – and although it is not possible to get the same quality from interpolated traces as the traces recorded in the field, 5-D interpolation has proven to be quite successful This is ...

**Interpolation of the Five-Point Rectangle by Powers of ...**

The five-point rectangular data array can be interpolated by new polynomial equations and by powers of those equations New finite difference equations for rectangular arrays are illustrated Mathematics Subject Classification: 65D05, 65D07, 65D17 Keywords: interpolation, experimental design, operational methods 1 Introduction

**Anisotropy of Interfacial Energy in Five Dimensions**

5-space dominated by special low-dimensional subsets termed grofs The new interfacial energy function uses grofs as scaffolding for hierarchical interpolation providing an accurate description of GB energy anisotropy in four FCC metals in the entire 5-space Among the numerical parameters defining the GB energy function, only two are found to

**Four-dimensional f-k Interpolation of Wide Azimuth Towed ...**

72 nd EAGE Conference & Exhibition incorporating SPE EUROPEC 2010 Barcelona, Spain, 14 - 17 June 2010 G010 Four-dimensional f-k Interpolation of Wide Azimuth Towed Streamer Data M Naghizadeh\* (University of Calgary), OK Leirfall (Statoil ASA) & MD

**Interpolation Using Hankel Tensor Completion**

interpolation does poorly when the gap is 15 by 15 traces or larger, while Hankel tensor interpolation does well even for a 17 by 17 trace gap A real example is given in Figure 5, showing a single 3D CMP gather before and after 5D interpolation Conclusions Hankel tensor completion is a novel means of

**th Image Inpainting by Hyperbolic Selection of Pixels for ...**

block assumes each line as a five-pixel line with a missing center and predicts an intensity value for the center pixel using dimensional directions and the other interpolates in two for 2-dimensional interpolation There a new set of  $5 \times 7$  and  $7 \times 5$  matrices are created from the input set of  $3 \times 4$  and  $4 \times 3$

**Unconstrained Optimization 4 - UFL MAE**

Unconstrained Optimization 4 dimensional minimization along each of the coordinate directions of an n-dimensional design space This procedure is called the univariate search technique Chapter 4: Unconstrained Optimization right can be used in another quadratic interpolation to give a ...

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**Merging Surveys with Multidimensional Interpolation\***

Multidimensional interpolation has the capability to capture amplitude variations along all the dimensions simultaneously and create new data consistent with that information, and it does assume amplitude variation on all directions, as opposed to supergathers The potential for

multidimensional interpolation is ...

### **INTERPOLATION OVER LARGE DISTANCES USING SPHEREKIT**

INTERPOLATION OVER LARGE DISTANCES USING SPHEREKIT Robert Raskin, Associate Scientist, Applied Research Corporation, Jet Propulsion Laboratory Mail Code 525-389, Pasadena, CA 91109 USA

### **Image demosaicing and reconstruction of bayer-patterned ...**

the color cross ratio equivalence The interpolation and the adjustment are weighted by a function of the directional derivatives to reduce the influence of ratios across edges This is the main difference from Cok's method, who try to match templates that predict the local structure of the image for a bilinear interpolation The

### **Accurate computing of radiative source term using discrete ...**

ACCURATE COMPUTING OF RADIATIVE SOURCE TERM USING DISCRETE ORDINATES METHODS FOR TO USE IN CFD CODES Kamal A R Ismail br and Fluids Engineering - FEM - ...

### **Data-adapted moving least squares method for 3-D image ...**

Data-adapted moving least squares method for 3-D image interpolation 8403 In Mai et al (2010), a diffusion tensor image is up-sampled by means of non-rigid inter-slice registration incorporating the underlying anatomical shape information

### **P4.5 Three-Dimensional Mosaic of the Eddy Dissipation Rate ...**

P45 Three-Dimensional Mosaic of the Eddy Dissipation Rate Fields from WSR-88Ds Ming Turbulence RT plans to incorporate it into a new rapid-update version of the Graphical Turbulence Guidance azimuth and range directions The vertical interpolation is performed between all pairs of adjacent tilts