

Five Dimensional Interpolation New Directions And Challenges

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Five-dimensional interpolation: New directions and challenges Introduction. Multidimensional sampling is not easy to visualize or understand, because different dimensions are linked... Output Geometries. There are two trends when designing geometries for interpolation (Trad, 2009): (1)... ...

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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 different ...

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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 Five Dimensional ...

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ak.multiLinearInterpolate = function(grid, values) { var wide = []; var axes, dims, lb, dx, i, axis, n, t, interpolate, f, if(ak.type(grid)!==ak.GRID_T) { throw new Error('invalid grid in ak.multiLinearInterpolate'); } axes = grid.axes(); dims = axes.length; lb = new Array(dims); dx = new Array(dims); for(i=0;i<dims;+i) { axis = axes[i]; n = axis.length; if(n<2) { throw new Error('axis too short in ak.multiLinearInterpolate'); } if(!isFinite(axis[0]) || !isFinite(axis[n-1])) { throw new ...

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As a natural extension to 5D interpolation, Ng and Negut (2015, 2016a) proposed the 6D interpolation method which has an additional dimension along multi-angular directions which is added to the 5D MWNI to guide the a priori model in the frequency-wavenumber domain.

6D Interpolation of Seismic Data - Rationale, Practice and ...
This method is called 5D interpolation because it runs on five dimensions of seismic data, a time dimension and four spatial dimensions.The four spatial dimensions are either inline/crossline/inline-offset/crossline-offset, or, inline/crossline/offset/azimuth, and time dimension can be expressed in frequency.

5D reconstruction - SEG Wiki
CSEG Recorder, 39, 40-46. [Read more] 5. Hunt, L., Downton, J., Reynolds, S., Hadley, S., Trad, D., & Hadley, M. (2010). The effect of interpolation on imaging and AVO: A Viking case study. Geophysics, 75(6), WB265-WB274. [Read more] 6. Trad, D. (2009). Five-dimensional interpolation: Recovering from acquisition constraints.

Consortium for Research in Elastic Wave Exploration ...
vertex at one corner). The 5 dimensional cube has 10 boundary hypercubes resulting in 5*24=120 5D simplices. In general, the number of simplices in a cube is D!. Since each simplex is attached to D+1 vertices and since each cube accounts for 1 vertex in the grid, the typical number of sim-()D+1 D D-1() 6 (D+1 D D-1())D-2 24 1 S+1! (D+1 ! (D-S ! [] or D+1

High-Dimensional Linear Data Interpolation
Five Dimensional Interpolation in Practice Daniel Trad (CGGVeritas) SUMMARY ____ Computer power growth has made possible to extend interpolation algorithms to many dimensions, which has proven to be essential to deal with the increase of dimensions of seismic data, from two to three dimensions and from narrow to wide azimuth. ...

Five Dimensional Interpolation in Practice
This "Cited by" count includes citations to the following articles in Scholar. The ones marked * may be different from the article in the profile.

The book is a collection of selected papers from the 18th WIRN workshop, the annual meeting of the Italian Neural Networks Society (SIREN). As the number 18 marks the year young people come of age in Italy, the society invited two generations of researchers to participate in a discussion on neural networks: those new to the field and those with extensive familiarity with the neural paradigm. The challenge laid in understanding what remains of the revolutionary ideas from which neural networks stemmed in the eighties, how these networks have evolved and influenced other research fields, and ultimately, what the new conceptual/methodological frontiers are that need to be trespassed for a better exploitation of the information carried by data. This book presents the outcome of this discussion. New Directions in Neural Networks is divided in two general subjects, models and applications and two specific ones, economy and complexity and remote sensing image processing. The editors of this book have set out to publish a scientific contribution to the discovery of new forms of cooperative work that are necessary today for the invention of efficient computational systems and new social paradigms.

Computers are used in today's technological world as a powerful tool to simulate many complex phenomena in various fields. This book is an introduction to some of these exciting developments. All the articles are written by experts in their respective fields. Each article teaches by example and the book contains case studies in fields as diverse as physics, biology, fluid dynamics, astrophysics, device modeling and weather simulation. This book should be of interest to a new researcher as an introduction to an exciting arena of computer applications. It should also benefit expert scientists, providing methods that may apply to their own problems or open up new research possibilities with unlimited promise. Contents:Fluids:CFD Analysis and Design Optimization Using Parallel Computers (L Martinelli et al.)Numerical Simulations of Growth Kinetics and Spinodal Decomposition in Fluids (T Lookman)Modern Shock Capturing Methods for Conservation Laws (Shi Jin)Materials:Simulating Materials Failure Using Parallel Molecular Dynamics (F Abraham)Semiconductor Device Physics and the Modeling of Small Semiconductor Devices (S E Laux & M V Fischetti)Statistical Mechanics:Cellular Automata and Self Organized Criticality (M J Creutz)Chemistry:Polymer Simulation Using Cellular Automata: 2-D Melts, Gel-Electrophoresis and Polymer Collapse (Y Bar-Yam)Biology:Prediction of DNA Structural Variability, A New Computational Method for Finding DNA Regulatory Regions (C Benham)Analysis of Population Phenomena in Neuronal Networks with Electrophysiology and Computer Simulations (R Traub & J G Jeffrey)A Simulation of the Immune System (P E Seiden & F Celada)Astrophysics:Applications of N-Body Methods to Studies of Large Scale Structure Formation in the Universe (R Splinter & S Bhusar)Geophysics:Global Ocean Simulations with an Isopycnic Coordinate Model (R Bleck et al.) Readership: Researchers using computers for scientific applications. keywords:

This book, along with its companion volume, Nonlinear Dynamics New Directions: Models and Applications, covers topics ranging from fractal analysis to very specific applications of the theory of dynamical systems to biology. This first volume is devoted to fundamental aspects and includes a number of important new contributions as well as some review articles that emphasize new development prospects. The second volume contains mostly new applications of the theory of dynamical systems to both engineering and biology. The topics addressed in the two volumes include a rigorous treatment of fluctuations in dynamical systems, topics in fractal analysis, studies of the transient dynamics in biological networks, synchronization in lasers, and control of chaotic systems, among others. This book also: · Presents a rigorous treatment of fluctuations in dynamical systems and explores a range of topics in fractal analysis, among other fundamental topics · Features recent developments on large deviations for higher-dimensional maps, a study of measures resisting multifractal analysis and a overview of complex Kleinan groups · Includes thorough review of recent findings that emphasize new development prospects

"This book addresses existing solutions for data mining, with particular emphasis on potential real-world applications. It captures defining research on topics such as fuzzy set theory, clustering algorithms, semi-supervised clustering, modeling and managing data mining patterns, and sequence motif mining"--Provided by publisher.

Published in 1976, New Directions in Attribution Research is a valuable contribution to the field of Social Psychology.

This volume contains a collection of papers in control theory and applications presented at a conference in honor of Clyde Martin on the occasion of his 60th birthday, held in Lubbock, Texas, November 14-15, 2003.

This IMA Volume in Mathematics and its Applications NEW DIRECTIONS IN TIME SERIES ANALYSIS, PART II is based on the proceedings of the IMA summer program "New Directions in Time Series Analysis. " We are grateful to David Brillinger, Peter Caines, John Geweke, Emanuel Parzen, Murray Rosenblatt, and Murad Taqqu for organizing the program and we hope that the remarkable excitement and enthusiasm of the participants in this interdisciplinary effort are communicated to the reader. A vner Friedman Willard Miller, Jr. PREFACE Time Series Analysis is truly an interdisciplinary field because development of its theory and methods requires interaction between the diverse disciplines in which it is applied. To harness its great potential, strong interaction must be encouraged among the diverse community of statisticians and other scientists whose research involves the analysis of time series data. This was the goal of the IMA Workshop on "New Directions in Time Series Analysis. " The workshop was held July 2-July 27, 1990 and was organized by a committee consisting of Emanuel Parzen (chair), David Brillinger, Murray Rosenblatt, Murad S. Taqqu, John Geweke, and Peter Caines. Constant guidance and encouragement was provided by Avner Friedman, Director of the IMA, and his very helpful and efficient staff. The workshops were organized by weeks. It may be of interest to record the themes that were announced in the IMA newsletter describing the workshop: I.

This volume is the Proceedings of the symposium held at the University of Wyoming in August, 1985, to honor Gail Young on his seventieth birthday (which actually took place on October 3, 1985) and on the occasion of his retirement. Nothing can seem more natural to a mathematician in this country than to honor Gail Young. Gail embodies all the qualities that a mathematician should possess. He is an active and effective research mathematician, having written over sixty pa pers in topology, n-dimensional analysis, complex variables, and "miscellanea." He is an outstanding expositor, as his fine book Topology, written with J. G. Hocking (Addison Wesley, 1961), amply demonstrates. He has a superlative record in public office of outstanding, unstinting service to the mathematical community and to the cause of education. But what makes Gail unique and special is that throughout all aspects of his distinguished career, he has emphasized human values in everything he has done. In touching the lives of so many of us, he has advanced the entire profession. Deservedly, he has innumerable friends in the mathematical community, the academic community, and beyond.

The theme of the 2nd International KES Symposium on Intelligent Interactive Multimedia Systems and Services was integration of multimedia processing techniques in a new wave of user-centric services and processes. This text offers the symposium's proceedings.

This book gathers authoritative contributions in the field of Soft Computing. Based on selected papers presented at the 7th World Conference on Soft Computing, which was held on May 29–31, 2018, in Baku, Azerbaijan, it describes new theoretical advances, as well as cutting-edge methods and applications. New theories and algorithms in fuzzy logic, cognitive modeling, graph theory and metaheuristics are discussed, and applications in data mining, social networks, control and robotics, geoscience, biomedicine and industrial management are described. This book offers a timely, broad snapshot of recent developments, including thought-provoking trends and challenges that are yielding new research directions in the diverse areas of Soft Computing.