

Five-dimensional interpolation: New directions and challenges

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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 algorithms and flavors. Our understanding of interpolation has grown greatly in the last decade because of its use in increasingly challenging scenarios. A few years ago interpolation was targeted to remove sampling artifacts in the stacked image from prestack migration; today it is used to improve amplitude analysis in common image gathers and time-lapse studies, which are much more demanding. However, answers for many of the questions that this technology created at its beginning remain unclear, and differ among experts. Here I discuss some of these questions in the context of land surveys and point to directions where interpolation may be heading.

Introduction

Multidimensional sampling is not easy to visualize or understand, because different dimensions are linked through physics in complex ways. Often the sampling problem is wrongly considered as if frequencies and wavenumbers along each dimension were free to take any value up to Nyquist. In reality, seismic frequencies can only take a limited bandwidth along each dimension and are connected across dimensions through the wavefront curvatures in the five-dimensional seismic volume (e.g. inline, crossline, offset, azimuth, frequency). Although it is not easy to exploit this knowledge about the physics of the wave propagation, we can use it to constrain the data spectra to predict new traces. For example, we use band limitation and smoothness in the spectrum, and assume that data changes slowly as a function of frequency and wavenumber. In spite of only using approximations, interpolation algorithms have been highly successful by using spectral models from recorded traces to predict unrecorded data. The mechanism behind interpolation is to first remove from these models (spectral) artifacts produced by poor sampling, such as aliasing and noise, and then to invert them to predict the seismic data at arbitrary locations. This is possible since seismic data are redundant, for example because of overlapping of Fresnel

volumes, and additional predicted traces do not need to be perfect to help migration algorithms. Although traces created from data interpolation contain only a portion of the information that a real acquired seismic trace would have, this is usually all a migration algorithm will keep after moving and stacking millions of samples. Figure 1 shows a prestack migration result with and without 5D interpolation. The migration result has clearly improved with interpolation even when the added data do not agree exactly with the unrecorded samples.

After almost ten years of application in the industry, some of the original questions about interpolation generate different answers or remain unclear:

- What is the best output geometry design?
- Which algorithms are more appropriate?
- How does aliasing affect 5D interpolation?
- Can 5D interpolation preserve diffractions (i.e. fractures), AVO and AWA?
- How can we mitigate the effect of noise on interpolation?
- What is next?

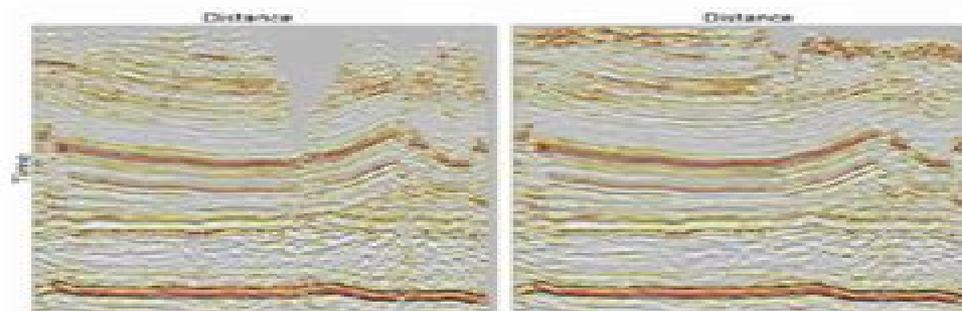


Figure 1. Prestack time migration for a land data set in the Marcellus area without (left) and with (right) 5D interpolation.

Five Dimensional Interpolation New Directions And Challenges

József Attila Tudományegyetem



Five Dimensional Interpolation New Directions And Challenges:

Nonlinear Dynamics New Directions Hernán González-Aguilar, Edgardo Ugalde, 2015-03-09 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 Kleninan groups Includes thorough review of recent findings that emphasize new development prospects New Directions in Electrophoretic Methods James W. Jorgenson, Marshall Phillips, 1987 Annotation Developed from a symposium at the 190th Meeting of the American Chemical Society Chicago Illinois September 8 13 1985 Electrophoresis remains the most powerful method available for separating and analyzing complex mixtures of charged biopolymers playing a key role in the latest advances in medicine agriculture chemistry and biotechnology This sixteen chapter volume traces recent developments in electrophoretic separations technology and applications Isotachophoresis zone electrophoresis isoelectric focusing two dimensional electrophoresis and pulsed electrophoresis are among the methods discussed Additional topics include applications of electrophoretic methods in agriculture and forensic serology the development of standards for electrophoresis and synthetic ion containing polymers Annotation c 2003 Book News Inc Portland OR booknews com **Hamiltonian and Gradient Flows, Algorithms and Control** Anthony Bloch, 1994 This volume brings together ideas from several areas of mathematics that have traditionally been rather disparate The conference at the Fields Institute which gave rise to these proceedings was intended to encourage such connections One of the key interactions occurs between dynamical systems and algorithms one example being the by now classic observation that the QR algorithm for diagonalizing matrices may be viewed as the time 1 map of the Toda lattice flow Another link occurs with interior point methods for linear programming where certain smooth flows associated with such programming problems have proved valuable in the analysis of the corresponding discrete problems More recently other smooth flows have been introduced which carry out discrete computations such as sorting sets of numbers and which solve certain least squares problems Another interesting facet of the flows described here is that they often have a dual Hamiltonian and gradient structure both of which turn out to be useful in analysing and designing algorithms for solving optimization problems This volume explores many of these interactions as

well as related work in optimal control and partial differential equations *Scientific and Technical Aerospace Reports*, 1988-11 **Pressure Vessel Components Design and Analysis**, 1985 *Air Force Research Resumés*, 1968 **Proceedings of the ASME Dynamic Systems and Control Division**, 1998 *Engineering News*, 1910 SIAM Journal on Matrix Analysis and Applications, 1994 Contains research articles on linear algebra with emphasis on applications and numerical procedures These applications include such areas as Markov chains networks signal processing systems and control theory mathematical programming economic and biological modeling and statistics and operations research **34th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit**, 1998 **AIChE Symposium Series** American Institute of Chemical Engineers, 1972 **Proceedings of the ... IEEE Conference on Visualization**, 1990 **Acta Scientiarum Mathematicarum** József Attila Tudományegyetem, 1991 **Mathematical Reviews**, 2003 **Government Reports Annual Index**, 1985 Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z **Course Notes**, 1994 *Functional Neuroimaging of Visual Cognition* Nancy Kanwisher, John Duncan, 2004 The latest volume in the critically acclaimed and highly influential Attention and Performance series focuses on the role that functional neuroimaging plays in visual cognition Functional neuroimaging has greatly enhanced our knowledge of the brain and has been one of the most important tools in cognitive neuroscience At the same time the full power of neuroimaging can be realized only if there is convergence with theories based on other approaches including computational modelling behavioural experiments and electrophysiology in the behaving animal In this book Nancy Kanwisher and John Duncan have brought together leading cognitive neuroscientists to present groundbreaking new research on the neural bases of vision The first part of the book considers the degree to which visual processing in the brain is modular including contributions from both sceptics and proponents of modularity Part 2 focuses on object recognition in particular the role of the ventral visual pathway In part 3 the mechanisms of visual attention are discussed The final part of the book explores the relationship between vision and action with a look at the neurophysiology of sensorimotor integration In additional chapters Giacomo Rizzolatti discusses research on mirror neurons and their implications for understanding the actions and intentions of others while Michael Posner considers what we have achieved so far with neuroimaging and looks to the future and the next steps in our quest to understand brain function Superbly edited and full of stunning colour images this will be one of the key publications in the field of cognitive neuroscience *Dissertation Abstracts International*, 2008 **Proceedings**, 1993 Selected Water Resources Abstracts, 1981

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