

# 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?

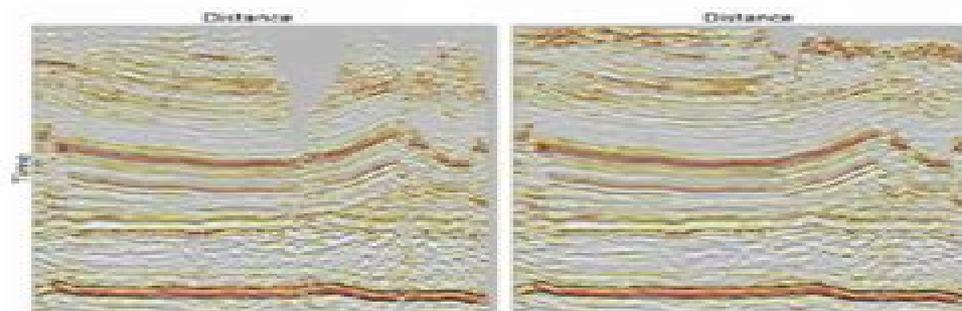


Figure 1. Prestack time migration for a land data set in the Marcellus area without (left) and with (right) 5D interpolation.

# Five Dimensional Interpolation New Directions And Challenges

**Sebastian Brünink**



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