Illustrative rendering of seismic data

D. Patel

Christian Michelsen Research, Norway (CMR), Bergen, Norway (daniel@cmr.no)

We present techniques for illustrative
rendering of interpreted seismic volume data
by adopting elements from geology book illustrations.
We also introduce combined visualization
techniques of interpreted and uninterpreted data for
validation, comparison and interdisciplinary communication
reasons. We introduce the concept of
smooth transitions between these two semantical
levels. To achieve this we present transfer functions
that map seismic volume attributes to 2D textures
that flow according to a deformation volume
describing the buckling and discontinuities of the
layers of the seismic data.