

Abstract for:

A three-dimensional visualization tool for mine datasets

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B.T. Corkum, J.H. Curran, M.W. Grabinsky

Summary:

EXAMINE^{3D} is a three-dimensional data visualization and stress analysis package which has been developed at the University of Toronto specifically for application in the mining industry. This paper reviews the structure and functionality of EXAMINE^{3D}, and datasets from two actual mines are used to demonstrate various techniques for displaying three-dimensional stress and seismic (and potentially and other) data. An accompanying video demonstrates the value of animation (motion) in enhancing understanding of the interaction between mine geometry, geology and rockmass response to mining.