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Compressive sensing and entropy in seismic signals

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Highlights

We apply the Compressive Sensing method to seismic data composed of traces of a seismogram.

The performance of the Compressive Sensing reconstruction is computed using the error of the reconstructed signal.

In general, disregarding the sampling rate of the Compressive Sensing, the entropy of the signal correlate negatively with the error of the reconstruction.

Signal with low entropy, more organized signal, presents a better Compressive Sensing reconstruction.

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