



The Last Dns

CELESTIAL

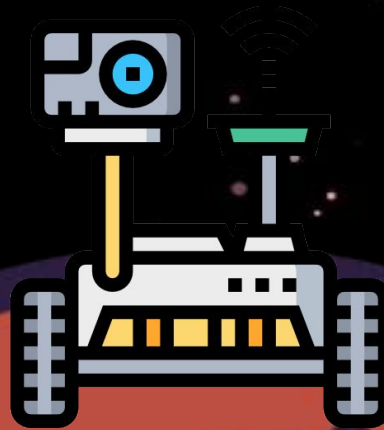
QUAKE

NET

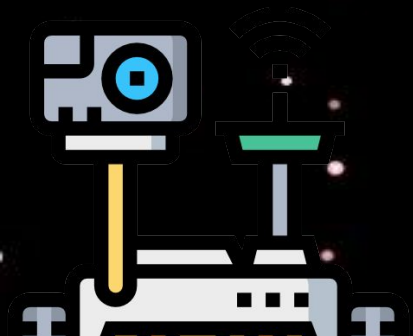
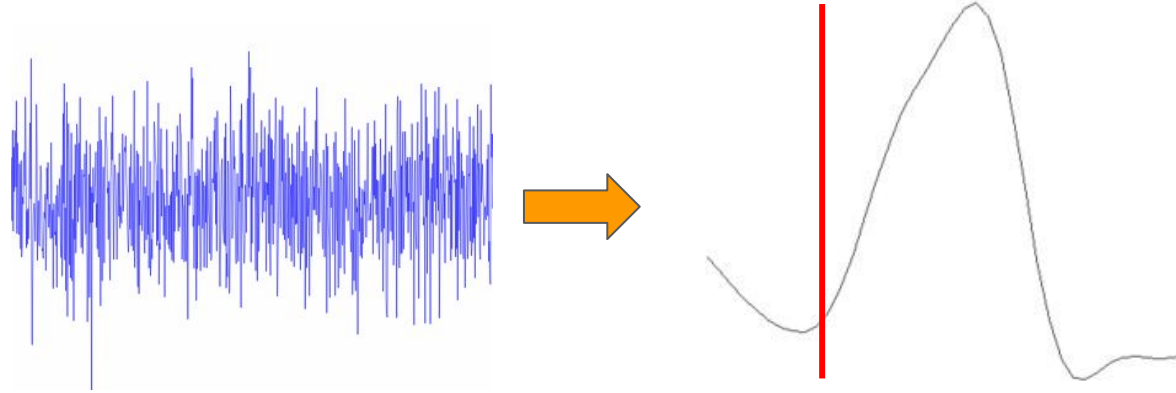
A stylized illustration of space. In the bottom left corner, a portion of the Earth is visible, showing blue oceans and green continents with thick black outlines. In the top right corner, the Moon is depicted as a large white circle with several black circles of varying sizes representing craters. To the right of the Moon is a smaller red circle representing Mars, with black lines indicating surface features. The background is a black field filled with numerous small white and pinkish dots representing stars. A single four-pointed star is located to the left of the text.

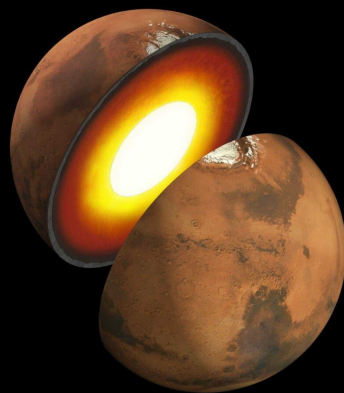
**Signals take too long to reach Earth.
Mars is 400 million kilometers away,
which makes transmitting all the
gigabytes of seismic data inefficient.**

Develop seismic detection algorithms to enhance the ability of probes to work autonomously

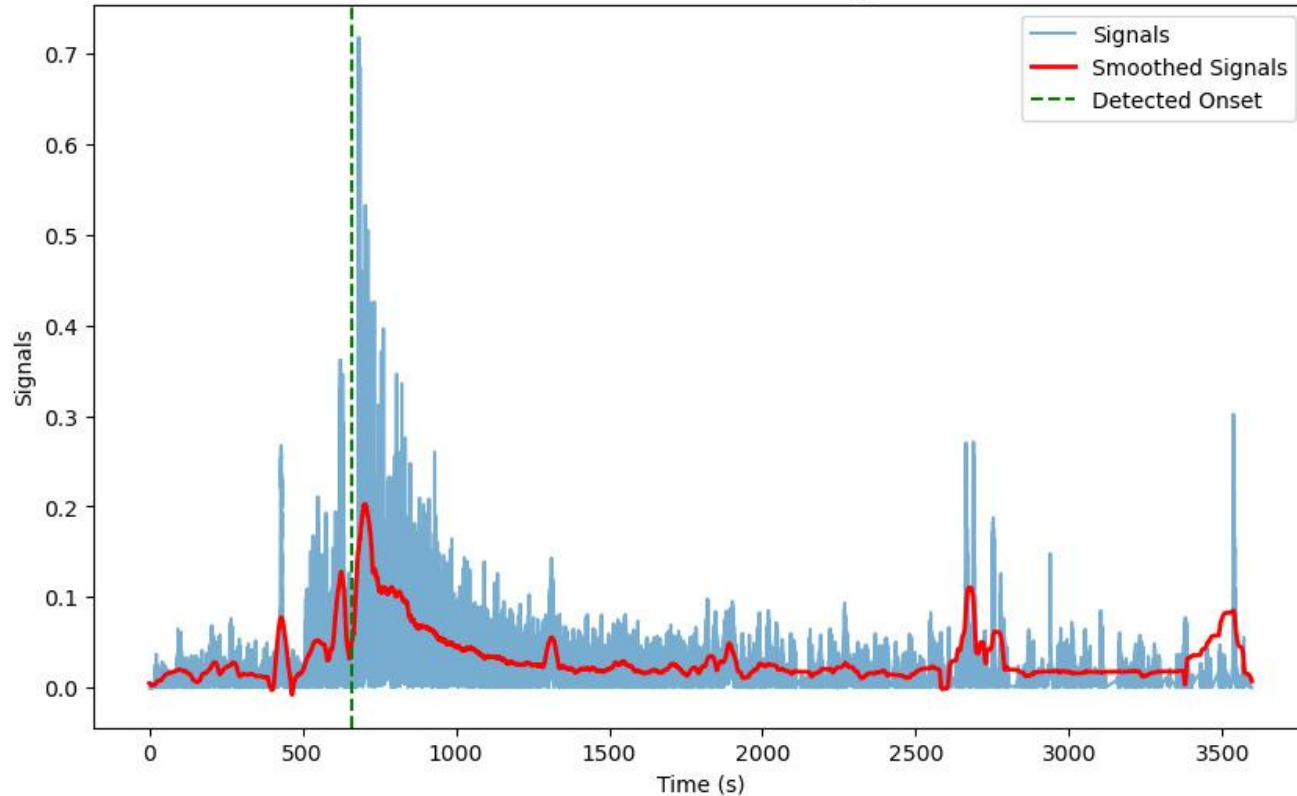


Savitzky-Golay Filter





Seismic Detection of Mars Signals



91%
Accuracy

50%
More
LIGHT

CONCLUSIONS

This algorithm is intended to tackle the aforementioned objectives and pave the way for further research



PROJECTIONS

Further test this algorithm on more seismic data, recollected on other planets like Venus, Mercury, etc.

Implementation of Deep Learning techniques to improve the accuracy

