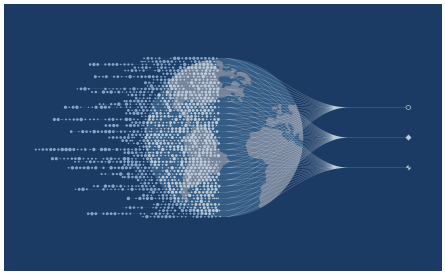

ID: **P3.5-073** Type: **E-poster**

of the short time statistical analysis in significantly increasing the signal to noise ratio of inrasound, acoustic, hydroacoustic and seismic signals

Data recorded for monitoring a global nuclear-test-ban treaty are a mixture of useful signals, ambient and measurement noise. Suppressing these noises and increasing the signal to noise ratio is a significant task. The paper describes a way to suppress the mentioned noises, so that by applying the proposed method, the signal to noise ratio is increased by more than 20 dB. This result is achieved by applying the so-called statistical filter, whose operation is based on the application of fourth-order cumulants. The method enables de-noising of signals with or without overlapping time intervals.

E-mail

vracarmiodrag@mts.rs

In-person or online preference

Primary author: Dr VRACAR, Miodrag (Military Technical Institute, Belgrade,)

Presenter: Dr VRACAR, Miodrag (Military Technical Institute, Belgrade,)

Session Classification: P3.5 Analysis of Seismic, Hydroacoustic and Infrasound Monitoring Data

Track Classification: Theme 3. Monitoring and On-Site Inspection Technologies and Techniques: T3.5 Analysis of Seismic, Hydroacoustic and Infrasound Monitoring Data