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T3.1-P03. A literature review of seismic signal detectors.

Seismic signal detectors are extremely important, not only because an earthquake or a seismic event of interest must be detected automatically in real time to launch an early alarm, but also to optimize the necessary storage memory. Furthermore, it is always indispensable to identify seismic signals from noise so that they can be analyzed. Therefore, an automatic identification algorithm that examines continuously incoming seismic data to detect seismic signals is of great importance. The need for a seismic detection task has lead many researchers to investigate various techniques. Several different detection methods are presently known in literature. These methods are mostly based on finding remarkable changes in some characteristic properties of the seismic trace with reference to the preceding seismic noise. The present paper addresses the seismic signal detection problem and gives a literature review of the most popular and used detectors.

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