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(Prof. Jasper Murazik PhD)

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Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Automatic First-break Picking and Determination of Seismic Events Traveltime | This literature describes concepts and results related to application of time-frequency analysis for automatic detection of traveltime of seismic signals. Firstly, short-time Fourier transform is introduced as one of time-frequency methods, that has more capability than Fourier transform and gives us sensible feature of signal. Optimal window-length computing methods, such as optimization method and chirp rate method in order to enhancing resolution, have been investigated, analytically. Output results and their comparisons endorse effective role of window-length as an important parameter. Like automated first-break picking methods that use instantaneous attributes, we utilize short-time Fourier transform in order to extraction of a local attribute for automatic picking of arrival time. Furthermore, using this tool, we can calculate instantaneous traveltime that help us to identify seismic events in a trace. This procedure leads to detection of reflectors and seismic horizons in the prestack and poststack seismic gathers and sections. | Format: Paperback | Language/Sprache: english | 76 pp.

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