

Based SCT: Software Tool for Improvement of Reviewed Event Bulletin Quality

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Spot check is the final level of the interactive review hierarchy aimed at the improvement of Reviewed Event Bulletin (REB) quality. At the International Data Centre (IDC) this task is conducted by an independent reviewer whose responsibility is to investigate event location anomalies, missing or bogus large events representing invalid data associations or incorrect detections. To facilitate the work of the reviewer, SCT software was developed as an implementation of the master event approach, which allows the reviewer to see how this event has been processed compared to similar events in the historical archive. The information backbone of the SCT is a historical IDC database allowing for the testing of event hypotheses with the archived events. The automatic SCT software generates daily cross-correlation event bulletins and conducts comparison with SELs and REB bulletins. The interactive web based front end of the SCT makes available visualization of the results via maps and tables. SCT also provides a reviewer with an interactive mode of operation, allowing event selection and intuitive processing configuration. Additionally, the SCT tool assists expert technical analysis or special study. The tool is designed to provide various access levels, so internal reviewers, IDC analysts and external users could securely utilize specific SCT features.

Promotional text

This work contributes to the conference objectives in a way of enforcement of the expert technical analysis and special studies to improve event parameters and assist States Parties in identifying the source of specific event according to the Protocol to the CTBT.

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Oral preference format

in-person

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