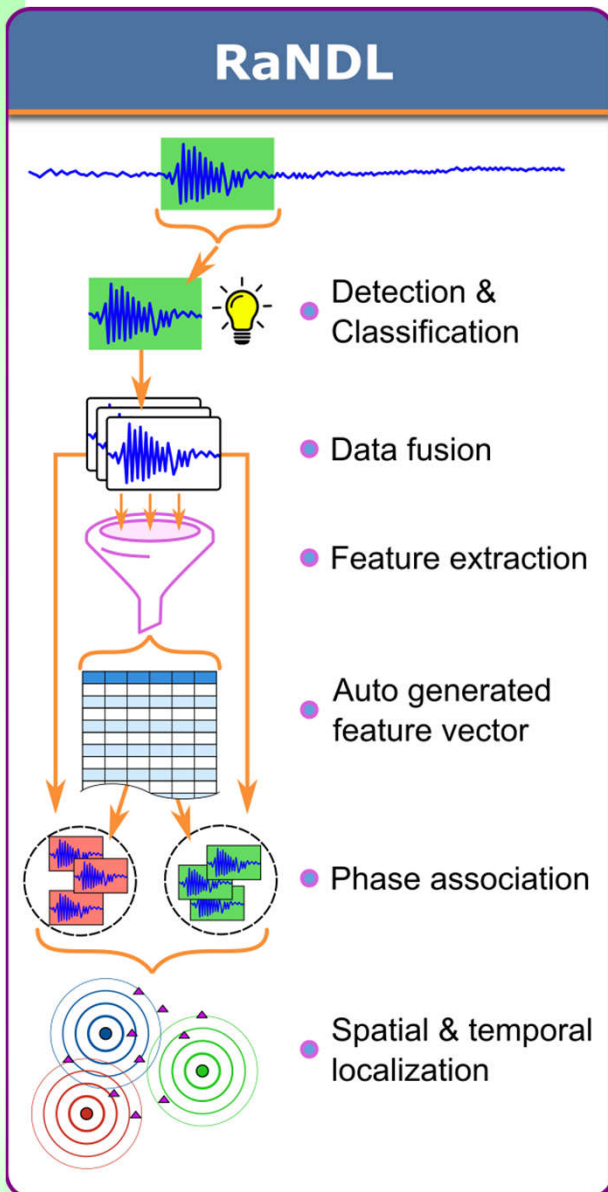


RaNDL: Rapid Nuclear and seismic events Discriminator and Locator

AI powered seismic wave analysis: detection, classification, association, location

RaNDL is a tool to analyze seismic waveform. It is composed as a framework of cascading deep learning models that can be deployed in parallel to rapidly detect phases in a continuous waveform, identify the type of event that produced the phase, associate it with phases at other stations, and localize the origin.



Applications:

- Event detection
- Event classification
- Phase association
- Event localization

Enabling Technologies:

- Deep learning
- Signal processing
- Feature extraction
- Data fusion
- Parallel processing
- Confidence estimation

Benefits:

- Reduce analyst workload
- Identify event type
- Parallel processing enables rapid association and location
- Improved work throughput

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