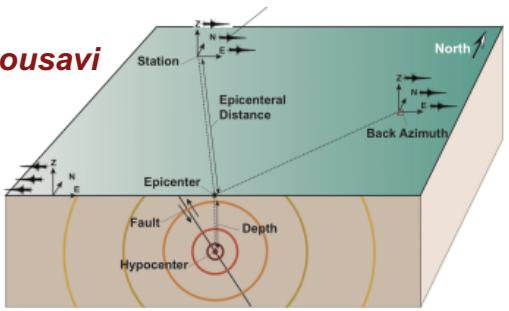
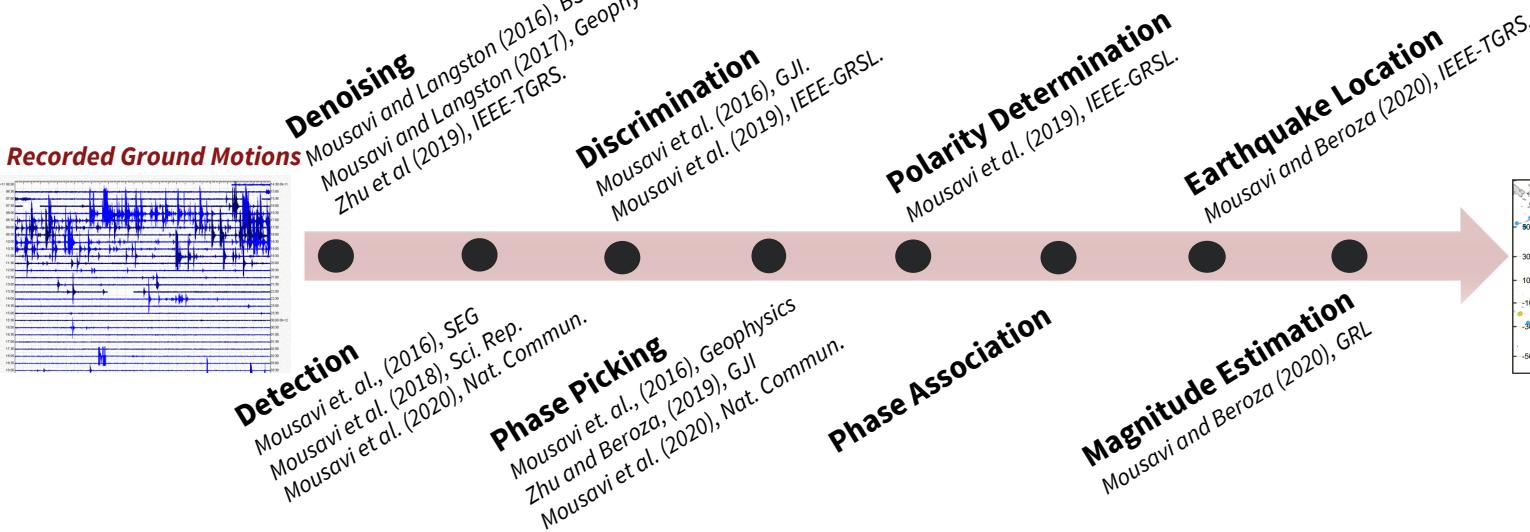
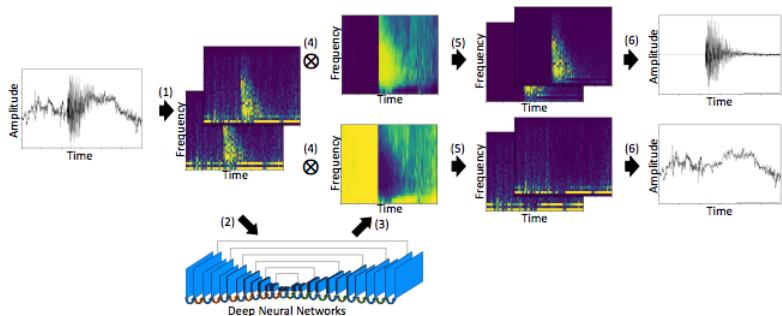


Earthquake Monitoring in Artificial Intelligence Era, *Mostafa Mousavi*



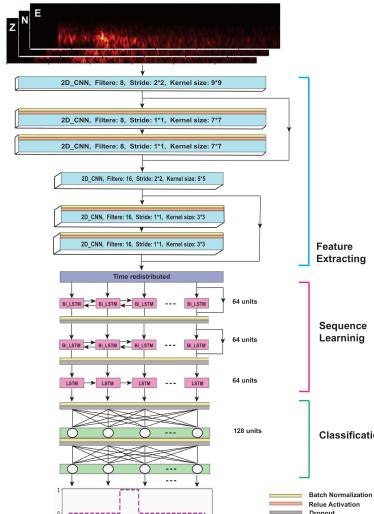
Denoising (DeepDenoiser)

Zhu, Mousavi, & Beroza, (2018), IEEE-TGRS.



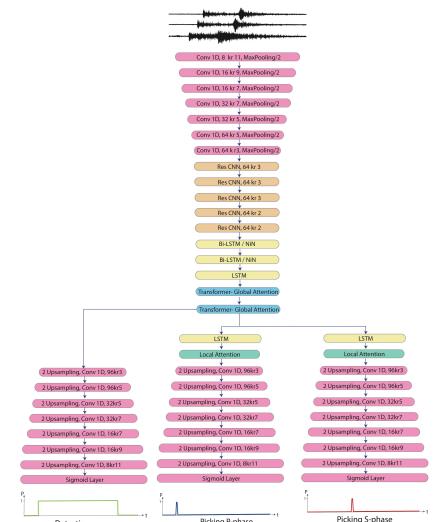
Detection (CRED)

Mousavi, Zhu, Sheng & Beroza, (2018),
Scientific Report



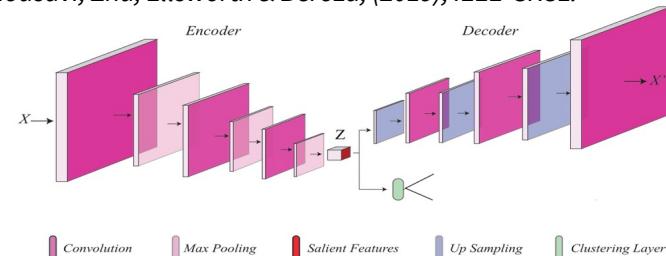
Detection & Picking (EQTransformer)

Mousavi et al, (2020), Nature Communication



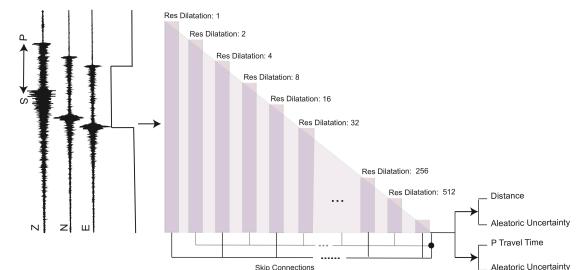
Event Discrimination & Polarity Determination

Mousavi, Zhu, Ellsworth & Beroza, (2019), IEEE-GRSL.



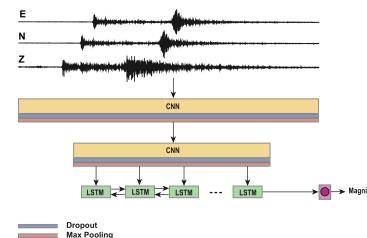
Single-Station Location

Mousavi & Beroza, (2020), IEEE-TGRS.



Magnitude Estimation (MagNet)

Mousavi & Beroza, (2019), GRL.



STanford EArthquake Dataset (STEAD)

Mousavi et al, (2019), IEEE-Access.

1.3 M Labeled Waveform. **450 k** Earthquakes. **19,000** Hours of Data. **2613** Stations.

