Abstract: Does Geo-electric Data Tell Us Anything About Future Earthquakes?

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Earthquake prediction has always been a challenging task. Motivated by the belief that the building-up of earthquakes might affect some unknown temporal-statistical properties of geo-electricity, we looked into decades of high-frequency geo-electric time series data in Taiwan recorded in several stations. With sliding time windows and machine learning algorithms, we searched for the existence of such statistical features, and examined their predictive powers on earthquakes. Our work should contribute a small step towards the challenging quest of earthquake prediction.