

**Mohamed H.Yassien, Mahmoud Salam and Shimaa H. El khouly**

**National Research Institute of Astronomy and Geophysics (NRIAG)**

P1.2-868

- Our poster is about ...Classification of near fault ground motion pulse.
- I am going to tell you that pulse classification is important for various engineering applications, including seismic hazard assessment, structural design based on real-time strong motion monitoring.
- We use machine learning algorithms to identify type of first ground motion pulses
- The most important result of our work is ... show that the Self Organizing Map (SOM) algorithm achieves superior classification performance with an accuracy of 94.2%. Performance evaluation including AUC-ROC (0.97) confirms the robustness of the proposed methodology.
- If you want to find out more, come over for a chat in front of our poster

