ID: Type: **Poster**

JISView: Geographic Information System of Earthquake Focal Mechanism

JISView had been made which is development of AMZTAK software that has function to modeling earthquake focal mechanism. Through the making of GUI some of the functionality built into automatically and added to the system and combined with GIS to support earthquake and tsunami vulnerability analysis in order to become more effective and systematic. Modeling is done using the P-wave phase data. JISView software system is designed in such a way that can perform earthquake focal mechanism modeling, data management, mapping and simultaneously in a single parametric analysis process flow. The method used in the form of merging multiple module functions include data conversion, processing and plotting. GIS designed to display information in relation to the territorial distribution of earthquake focal mechanism. GIS also provides facilities for analyst of earthquake to earthquake clustering based on spatial correlation of the fault. The output in the form of spherical focal software that is integrated directly on the map in a short time of about 7-10 minutes. Output speed of the faster data processing 5 minutes from the results of processing using AMZTAK. The accuracy has been compared with the output of BMKG, GFZ and USGS generally have the same result.

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Track Classification: Theme 3: Advances in Sensors, Networks and Processing