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# ABSTRAK

## AWAM 2007

*Kejuruteraan Awam : 50 Tahun Selepas Kemerdekaan*

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## PENGEDAR

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## Establishment of Empirical Relationships of Magnitude Conversion Specific for Malaysia

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### Abstract

This paper presents the results of the establishment of an empirical relationship for magnitude conversion specific for Malaysia. The data for this study is taken from the earthquake catalogue by Incorporated Research Institutions for Seismology (IRIS), National Earthquake Information Centre (NEIC) - U.S. Geological Survey (USGS), European-Mediterranean Seismological Centre (EMSC) and Malaysian Meteorological Service (MMS) within the latitude of 9° North and -3° South, and longitude of 122° East and 95° West from 1 January 1900 until 31 December 2006. Two empirical relationships have been developed for Malaysia by means of, namely empirical relationships of surface wave magnitude and moment magnitude.

*Keywords:* Surface wave magnitude, body wave magnitude, moment magnitude