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Ali S shaqlaih* (ashaqlaih@ou.edu), 500 NE 23RD AVE, NORMAN, OK 73071, and **Luther White** and **musharraf zaman**. *Resilient Modulus Modeling with information theory approach.*

The situation presents itself when one has data and many candidate models and the question is how to choose the best model that model the information in the data? In this talk Statistical models have been developed to correlate resilient modulus with routine properties of subgrade soils. An information theory approach is taken as a method in deciding the best model. This approach is compared with R^2 approach. The notion of ranking stability is introduced and is used as one of the reasons that makes information theory approach better than the R^2 approach. Important results are captured and compared to the results of the R^2 method in two different data sets. (Received September 22, 2009)