**Title of Article:** Expert system and econometric entropy-based model for residential building project cost adjudication.

**Author(s):** Amusan L.M, Ayo C.K, Mosaku T.O


**Abstract:** the main aim of the study is develop an expert system and econometric entropy-based model for residential building project for cost judgment and decisions in residential building project. the study used random sampling technique to select projects completed between 2009 and 2011, the project were examined for their cost centres. as-built cost of four hundred (400) of the projects were further selected and modified with econometric factors like inflation index, cost entropy and entropy factor and were used to form and train neural network used. probability technique was used to generate risk impact matrix and influence of entropy on the cost centres. a parametric model similar to hedonic models was generated using the utility parameters within the early and late elemental dichotomy. the model was validated through comparative analysis of the econometric loading attributes using monte carlo technique of spss software extracting the contingency coefficient. this attributes would enable a builder or contactor load cost implication of an unseen circumstance even on occasion of deferred cost reimbursement.