

A proposed Markov model for predicting the structure of a multi-echelon educational system in Nigeria

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SUMMARY

This paper is concerned with deriving, using logistic and Markov chain theoretic methodologies, a transition model for a stable educational system in Nigeria. The resulting transition model is the neo-stable imbedded Markov model. It is shown using an entropy-based uncertainty metric that the neo-stable imbedded Markov model is preferable to the stable imbedded Markov model in literature for long-term projection using dataset from a university.

Keywords: binomial logistic model; Markov model; multi-echelon educational system; Nigeria

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