Title: Reducing University Dropouts with the Use of Markov Analysis

Keywords: Markov Analysis, University Dropouts, Reducing Dropouts, Markov Model Chain

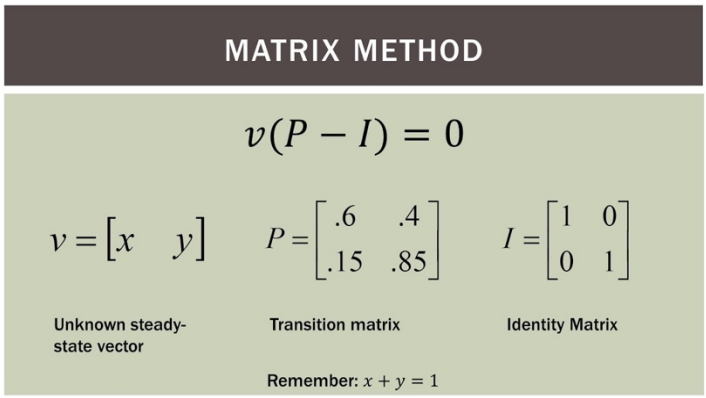
I. Abstract Body (up to 250 words)

University dropout rates has risen significantly over the past decades. The students' attrition on completing their higher education degrees possesses random characteristics, which can be translated as variable in modeling a Markov Analysis. This application would give significant value and opportunities for practical implementation in colleges and universities. As a main direction for the school administration, student dropouts can illustrate a decision support system for the institution.

The purpose of this study is to develop a stochastic model for assessment, monitoring and evaluation of ineffectiveness indicators in higher education institutions. We aim to predict the dropout rate of students condition of different variables. Thenceforward, we prepare a dataset of student records to show how the model works in the real context.

The factors of student and study program are framed as two variables, where the value of variables varies correspondingly to the state of these factors. Also, state-transition model is utilized to describe student's state along with dropout type. Consequently, a semi- Markov Model Chain is proposed to calculate the dropout amount of students.

II. Image:



III. Reference:

1 Oczki, J. 2014. Forecasting Internal Labour Suppli with a Use of Markov Chain Analysis, International Journal of Knowledge, Innovation and Entrepreneurship Vol 2 No 2, 2014, pp. 39-49

IV. Biography:



MARIA JOELYCA OCHONDRA SESCON has completed her Bachelor of Science in Management at the age of 19 years old from the University of the Philippines Visayas Tacloban College. She is currently taking her Master of Management Business Management at the University of the Philippines Visayas Tacloban College. She works as Management Faculty at the University of the Philippines Visayas Tacloban College, a premier educational institution in the region.

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