

CAUCHY

Jurnal Matematika Murni dan Aplikasi

Volume 4, Issue 3, November 2016

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PREFACE

Cauchy is a national journal published by Mathematics Department, Science and Technology Faculty, Maulana Malik Ibrahim State Islamic University of Malang. This is the second issue of this year. It contains 6 (six) article from all over the country, not only from local area of East Java. Those articles covered graph theory, numerical analysis, applied mathematics, statistics, economic mathematics, and algebra. This issue was authored by 13 authors and co-authors.

In the first article, the author discussed the application of pontryagin's minimum principle in optimum time of missile manoeuvring. Analysis of surface-to-surface missile which considered objective and dynamical system showed that trajectory tracking of this missile was split up in three sub-intervals, namely flying, climbing, and diving in which had different performances of speed.

The second article discussed about power of test path analysis and partial least square analysis. The result showed that the usage of path analysis provides better value than *PLS* at R^2 value in terms of the power of the test. Behavioral conditions of work of civil servants in Kediri City Government did not follow the rules of the science of human resources in terms of election officials echelon structural or civil servants.

The third article, entitled "Estimation Parameters and Modelling Zero Inflated Negative Binomial" elaborated that the estimation parameter of Zero inflated Negative Binomial (ZINB) model was conducted using Maximum Likelihood Estimation (MLE) and to maximize the likelihood function used the EM (Expectation Maximization) algorithm. For parameter test predictor variable that has significant effect on the number of cases of Tetanus Neonatorum are pregnant mothers visit K4 (X_1) and maternal mothers assisted by health workers (X_3) for the negative binomial state models, while zero inflation state model predictor variable that has significant effect on the number of cases of Tetanus Neonatorum include the percentage of neonates visit (X_4).

The fourth article emphasized the discussion to Leontief input-output method for the fresh milk distribution linkage analysis. Leontief Input-Output Method can illustrate the intersectoral linkages and identify the key sector in the fresh milk distribution. It is clearly shown that the merging of the collectors' and the fresh milk processing industries' activities offers high indices of both backward linkages and forward linkages, so that it can be the key sector in the fresh milk distribution.

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The last article entitled "Some Properties from Construction of Finite Projective Planes of Order 2 and 3". It showed that a finite projective plane is a geometric construction that extends the concept of a plane. It consists of a set of points and lines together with an incidence relation between them and order 2 is the smallest order. In this paper some properties from construction of finite projective planes of order 2 and order 3 which is as a comparison are observed.

ISSN 2086-0382

E-ISSN 2477-3344

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