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Investigation of Unbalanced Open Economy System by Using Interval Mathematics for the Case of Azerbaijan Republic

Authors

Authors and affiliations

Revana I. Davudova

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Abstract

This paper is devoted to the study of the relations between economic growth rate, consumption, investment, public expenditure norms, economic growth rate, general index of structural effectiveness and other macroeconomic indicators of the unbalanced open economy (UOE). Macroeconomic indicators’ interrelations of the UOE have been investigated on the basis P. Samuelson model in the fields of interval mathematics with interval values, taking into account the uncertainties that can arise in the evaluation indicators. MathWorks MATLAB Software 2017a M-file has been created to implement the calculations and graphic descriptions, simulations and evaluations perform the using interval values of the macroeconomic indicators, determined by the Delphi method.

Keywords

Unbalanced perfect open economy Macroeconomic indicators P. Samuelson model
Interval mathematics MATLAB M-file

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