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Statistics and econometrics from the point of view methodology mathematics

Kapustina T., Popyrin A., Savina L.

Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

The authors consider teaching statistics and econometrics with the use of mathematical methods. The advantages of step-by-step solution of problems and carrying out of laboratory works with the use of computer technologies (EXCEL, Mathematica) are discussed. The example of 2 variants of linear (4-factor) multiple regression in EXCEL and in Mathematica (with the use of single line programs in functional style) is given. Apart from professional program software (EViews, etc.) which give only summary table problem solution performed step-by-step can be used in teaching. © IDOSI Publications, 2014.

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Keywords

Econometrics, Heteroscedasticity, Multiple regression, Statistics