Subject: ECOSTA-D-20-00261 Your Submission
From: "Erricos John Kontoghiorghes" <em@editorialmanager.com>
Date: 1/22/21, 10:36 AM
To: "Haixi Li" <haixi.li@outlook.com>

CC: editor@econometricsandstatistics.org, erricos@dcs.bbk.ac.uk

Ms. Ref. No.: ECOSTA-D-20-00261
Title: Monitoring Structural Breaks in Dynamic Regression Models with Bayesian Sequential Probability Test
Econometrics and Statistics

Dear Dr. Haixi Li,

Thank you for giving us the opportunity to consider your work. Reviewers' comments on your work have now been received. You will see that they are advising against publication of your work. Therefore I must reject it. For your guidance, I append the Associate Editor's comments below. Unfortunately, the EcoSta cannot consider any resubmission of this manuscript.

Yours sincerely,

Erricos John Kontoghiorghes, PhD
Co-Editor
Econometrics and Statistics

Reviewers' comments:

AE: Thank you submitting your work to ECOSTA. Your work has been reviewed by two referees. One referee has objections while the second one suggests rejection. After having read your work myself, I find that the article is premature and suffers for several serious inconsistencies some of which are mentioned in the report of the second referee. In addition to the constructive comments of second referee, here are a list of recent references on sequential change-point detection testing :

Fremdt, S. (2015). Page’s sequential procedure for change-point detection in time series regression. Statistics 49 128-155.

Dette, H. and Gösmann, J. (2019). A Likelihood Ratio Approach to Sequential Change Point Detection for a General Class of Parameters. Journal of the American Statistical Association

Kirch, C. and Weber, S. (2018). Modified sequential change point procedures based on estimating functions. Electron. J. Statist. 12 1579–1613.

I. Kojadinovic and G. Verdier (2021), Nonparametric sequential change-point detection for multivariate time series based on empirical distribution functions, Electronic Journal of Statistics 15(1), pages 773-829

As you will see from an inspection of these references, your work unfortunately is not on par in terms mathematical rigor and simulations with respect to what is expected from a publication in an international journal in statistics.

For all of the above reasons, I cannot recommend acceptance of your work. I hope that the referee reports and the above list of recent references on the topic will help improve your work and better position it with respect to the existing literature.

Reviewer #1: please the report in pdf

Reviewer #2: please the report in pdf

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Attachments:

Report.pdf	92.6 KB
report(1).pdf	58.3 KB