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Manuscript Information Overview

Manuscript ID	**mathematics-2265149**
Status	Rejected
Article type	Article
Title	Check your outliers! An accessible introduction to identifying statistical outliers in R with easystats
Journal	*Mathematics* (https://www.mdpi.com/journal/mathematics)
Section	Probability and Statistics (https://www.mdpi.com/journal/mathematics/sections/probability_and_statistics_theory)
Special Issue	Advances in Statistical Computing (https://www.mdpi.com/journal/mathematics/special_issues/Advances_in_Statistical_Computing)
Abstract	Beyond the challenge of keeping up-to-date with current best practices regarding the diagnosis and treatment of outliers, an additional difficulty arises concerning the mathematical implementation of the recommended methods. In this paper, we provide an overview of current recommandations and best practices and demonstrate how they can easily and conveniently be implemented in the R statistical computing software, using the *{performance}* package of the *easystats* ecosystem. We cover univariate, multivariate, and model-based statistical outlier detection methods, their recommended threshold, standard output, and plotting methods. We conclude with recommendations on the handling of outliers: the different theoretical types of outliers, whether to exclude or winsorize them, and the importance of transparency.
Keywords	univariate outliers; multivariate outliers; robust detection methods; R; easystats
Manuscript File	manuscript.zip (/user/manuscripts/displayFile/33cbf34f213213b17592675ce62aec55)
PDF File	manuscript.pdf (/user/manuscripts/displayFile/33cbf34f213213b17592675ce62aec55/latest_pdf)

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Editor Decision

Decision	Reject and encourage resubmission
Comments	Less convinced as a scientific research is the major concern. I cannot find a solid contribution for the statistical methodologies, new packages, or sound applications in this study. Almost all the obtained conclusions are known. The readers would be happy to see more convincing results from good real examples from the real world if only the well known statistical methods and packages are used in this study. The tutorial-like results using the examples in R are too weak for an academic paper. It is contributive if the authors can include real examples in different areas to show the power of the used package and present the insight findings, not just show how to use the packages. Then, resubmit the revision as a new paper for review.
Decision Date	22 March 2023

Review Report

Reviewer 1	Review Report (Round 1) (/user/manuscripts/review/36643274?report=27508999)
Reviewer 2	Review Report (Round 1) (/user/manuscripts/review/36645867?report=27515065)
Reviewer 3	Review Report (Round 1) (/user/manuscripts/review/36697634?report=27554760)

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IOAP Participant:	McGill University
IOAP Payment:	Non-central: Invoiced to author
Author Eligible Central:	No
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If you have any questions or concerns, please do not hesitate to contact mathematics@mdpi.com (mailto: mathematics@mdpi.com).