

Dear Editor,

We are pleased to submit to *Entropy* our manuscript entitled “A New Heuristic Method for the Optimal Selection of Tolerance  $r$  for Entropy Indices”.

This study validates an easy-to-use heuristic algorithm to estimate the optimal tolerance parameter, which is critical for entropy indices (including sample entropy). We believe this work to be especially well suited for publication in *Entropy* as it offers a practical method that can be easily implemented and used in future studies, and addresses one of the long-lasting issue of the field (i.e., the usage of arbitrary and constant values for  $r$ , such as  $0.2 \cdot SD$ ).

In line with our lab's aim to set the highest standards of methodological rigour and reproducibility, the data and the full analysis script (including the code to generate the figures) has been made publicly available at

<https://github.com/DominiqueMakowski/ComplexityTolerance>. Additionally, to make our new method “ready-to-use”, we added it in NeuroKit2’s (one of the most popular Python software for physiological signals analysis) function to estimate the optimal tolerance value.

This manuscript is original, not previously published, and not under concurrent consideration elsewhere and the data were collected in a manner consistent with ethical standards for the treatment of human subjects. There is no conflict of interest to disclose. All authors have approved the manuscript and agree with its submission to *Entropy*.

We hope you will find our manuscript interesting and suitable for publication in your journal.

On behalf of all the authors,

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