

Perperoglou A, Sauerbrei W, Abrahamowicz M, Schmid M on behalf of TG2 of the STRATOS initiative (2019): A review of spline function procedures in R. BMC Medical Research Methodology (19:46). DOI: 10.1186/s12874-019-0666-3

Short summary

This paper reviews spline function procedures in R for statistical regression analysis, focusing on their implementation and popular usage. It highlights the need for user-friendly software packages and provides an overview of various spline-based techniques. Using simulated and real data, the study demonstrates different scenarios and emphasizes that the choice of hyperparameters, rather than the specific spline used, influences outcomes. The authors underscore the importance of guiding analysts in effectively utilizing these powerful tools. Overall, the paper contributes to advancing spline modelling understanding and its application in statistical analysis.