

Gilberto Pereira Sassi, PhD
Instituto de Matemática de Estatística, UFBA
Av. Adhemar de Barros, s/n
Salvador, BA, Brazil
+55 71 99278-5352
gilberto.sassi@ufba.br

May 26, 2020

Dear Editor,

Please consider the unpublished manuscript, “Estimating the trace-variogram in the ordinary kriging method for functional data using Legendre-Gauss quadrature” by Gilberto Pereira Sassi and Chang Chiann.

The manuscript presents a simpler approach to interpolate curves in the context of Spatial Functional Data Analysis. More precisely, we propose the use of Legendre-Gauss quadrature to estimate the trace variogram in the ordinary kriging method for function-valued data. We use simulated normal datasets and non-normal datasets to compare the proposed estimation procedure with the usual method of estimation. As results, a similar bias and a lower mean square error are observed to support the proposed estimation process.

Thank you for your time and consideration.

Yours sincerely,

Gilberto P. Sassi