Spatial predictions of soil properties without assumptions of stationarity in the variance.

Murray Lark, Kathy Haskard, and Ben Marchant

Rothamsted Research, Biomathematics and Bioinformatics Department, Harpenden, United Kingdom
(murray.lark@bbsrc.ac.uk)

In this presentation we shall show how the linear mixed model framework for geostatistical analysis, with residual maximum likelihood estimation of variance parameters, allows us to undertake spatial analysis and prediction of soil properties without making unrealistic assumptions of stationarity in the variance.