

Apresentação 7

Título

Truncated Normal Nonlinear Regression Models for Soil-water Characteristic Curves.

Autores

Carolina Costa Mota Paraíba, Carlos Alberto Ribeiro Diniz, Aline de Holanda Nunes Maia, Lineu Neiva Rodrigues.

Resumo

In the present paper, we propose an alternative approach for estimating soil-water characteristic curves based on truncated normal nonlinear regression models. Maximum likelihood estimator of the curve parameters are obtained by direct maximization of the likelihood function. Simulation studies are provided to assess the quality of estimates for the proposed regression model and diagnostic analysis are considered to check for model adequacy. We also provide a comparison study, based on simulation results, between the proposed methodology and the usual nonlinear least squares procedure. A real data set is analyzed using the proposed methodology.

SESSÃO ORAL 3
Local: Sala Camburí

16:30 – 16:50

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16:50 – 17:10

Modeling the Latent Covariate in the Linear Regression Model with Measurement Error Using Finite Mixtures of Skew-Student t Distributions

Celso Rômulo Barbosa Cabral, Víctor Hugo Lachos, Camila Borelli Zeller

17:10 – 17:30

Modelo de Resposta ao Item com Controle da Heterogeneidade Atribuída a Fatores Conhecidos

Rômulo Andrade da Silva, Afrânio Márcio Corrêa Vieira