Correction to: Uncertainty Assessment over any Volume without Simulation: Revisiting Multi-Gaussian Kriging

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Published online: 25 February 2021

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Correction to: Math Geosci

<https://doi.org/10.1007/s11004-020-09907-9>

The publisher apologized for this unfortunate error, which has been corrected in the original article. Due to a processing error, all upper sigma symbols, denoting covariance matrices, appeared without bold. All upper sigma Greek letters throughout the paper should be in bold. For example, in page 4

$$f_{Y_1, \dots, Y_N}(y_1, \dots, y_N) = \frac{\exp\left(-\frac{1}{2}(\mathbf{y} - \boldsymbol{\mu})^T \boldsymbol{\Sigma}^{-1}(\mathbf{y} - \boldsymbol{\mu})\right)}{\sqrt{(2\pi)^N |\boldsymbol{\Sigma}|}},$$

In addition, an error was inserted at the end of page 6, wherein the symbols μ and σ where replaced by words. Please read this last paragraph as

“We define as $G_{\mu}^{\sigma^2}$ the cdf of a Gaussian RF with mean μ and variance σ^2 , except for the standard case, noted as G . The notation for the Gaussian probability density function (pdf) with mean μ and variance σ^2 is introduced as $g_{\mu}^{\sigma^2}$, except for the standard case, noted as g . Then, Eq. (2) can be written as $F_{Z(\mathbf{u})} \circ \phi = G$.”

The original article can be found online at <https://doi.org/10.1007/s11004-020-09907-9>.

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In addition, an error was inserted in the equation at the middle of page 9, where the symbols for dots where replaced by words. Please read this equation as

$$\begin{aligned}
 F_{Z(\mathbf{u}_1), \dots, Z(\mathbf{u}_N) | \text{data}}(z_1, \dots, z_N) &= \mathbb{P}(Z(\mathbf{u}_1) \leq z_1, \dots, Z(\mathbf{u}_N) \leq z_N | \text{data}) \\
 &= \mathbb{P}(Y(\mathbf{u}_1) \leq y_1, \dots, Y(\mathbf{u}_N) \leq y_N | \text{data}) \\
 &= F_{Y(\mathbf{u}_1), \dots, Y(\mathbf{u}_N) | \text{data}}(y_1, \dots, y_N) \\
 &= G_{\mu_{SK}}^{\Sigma_{SK}}(y_1, \dots, y_N).
 \end{aligned}$$

In addition, an error was inserted at the end of page 15. Please read as $\sigma_{SK}^2(\mathbf{u}_i)$ instead of $\sigma_S^2 K(\mathbf{u}_i)$.