

Erratum to “Calculation of Generalized Polynomial-Chaos Basis Functions and Gauss Quadrature Rules in Hierarchical Uncertainty Quantification”

Zheng Zhang

In the paper [1], there is a typing error in the equation describing the first numerical example (i.e., the synthetic example in Section VI-A). The coefficient for the second term should be 5 instead of 0.5, and thus the correct equation should read

$$\hat{x} = f(\vec{\xi}) = \xi_1 + 5 \exp(0.52\xi_2) + 0.3\sqrt{2.1 \times |\xi_4|} + \sin(\xi_3) \cos(3.91\xi_4).$$

The author would like to thank Dr. Paolo Manfredi of Politecnico di Torino for pointing out this error.

References

[1]. Z. Zhang, T. A. El-Moselhy, I. M. Elfadel and L. Daniel, “Calculation of Generalized Polynomial-Chaos Basis Functions and Gauss Quadrature Rules in Hierarchical Uncertainty Quantification,” *IEEE Trans. Computer-Aided Design of Integrated Circuits and Systems*, vol. 33, no. 5, pp. 728-740, May 2014.