Core Ideas

- The equation regarding the discrete cosine transform needs to be corrected.

Erratum to “Probabilistic Inversion of Multiconfiguration Electromagnetic Induction Data Using Dimensionality Reduction Technique: A Numerical Study”

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In Eq. [3], the discrete cosine transform (DCT) was incorrectly formulated. The correct equation is

\[
G(i,j) = \alpha_i \alpha_j \sum_{z=1}^{N} \sum_{x=1}^{M} S(z,x) \cos \left( \frac{\pi (2z-1)(i-1)}{2N} \right) \times \cos \left( \frac{\pi (2z-1)(j-1)}{2M} \right)
\]

where

\[
\alpha_i = \begin{cases} 
\frac{1}{\sqrt{N}}, & i = 1 \\
\frac{2}{\sqrt{N}}, & 2 \leq i \leq N 
\end{cases}, \quad \alpha_j = \begin{cases} 
\frac{1}{\sqrt{M}}, & j = 1 \\
\frac{2}{\sqrt{M}}, & 2 \leq j \leq M 
\end{cases}
\]