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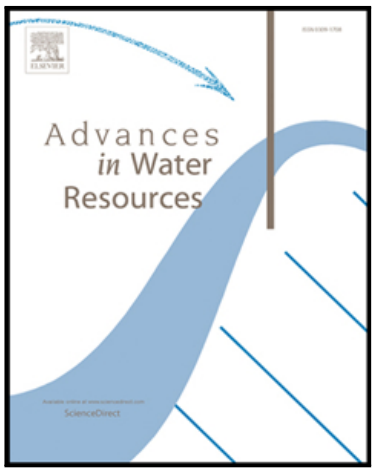

An adaptive Gaussian process-based iterative ensemble smoother for data assimilation

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Highlights

- The Gaussian process is combined with the iterative ensemble smoother for data assimilation.
- An adaptive scheme is proposed to refine the Gaussian process surrogate.
- Two synthetic case studies show that the computational efficiency is improved by about one order.

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