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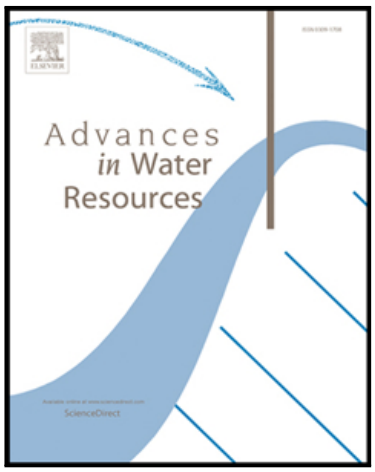

Catchment tomography - An approach for spatial parameter estimation

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Highlights:

- A tomographic approach for estimating a distributed Manning's roughness coefficient is proposed
- Spatially distributed precipitation data, serving as transmitter, are essential.
- A joint state-parameter update with the EnKF is applied assimilating stream water level observations
- The distributed Manning's coefficient is accurately estimated in a 2D synthetic experiment

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