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On the predictivity of pore-scale simulations: estimating uncertainties with multilevel Monte Carlo

Matteo Icardi, Gianluca Boccardo, Raúl Tempone

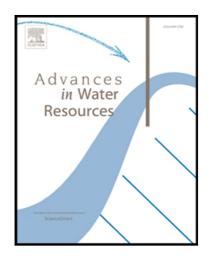
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Highlights

- efficient estimation of uncertainties due to finite size samples and parametric uncertainties
- fully automatized multilevel Monte Carlo sampling and pore-scale simulations

• error-controlled estimation of mean and variance of effective parameters in stochastic homogenization

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