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Pattern-Based Calibration of Complex Subsurface Flow Models  
against Dynamic Response Data

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**Highlights**

- A novel pattern-based model calibration approach is introduced for subsurface flow problems involving complex geologic connectivity patterns
- Supervised machine learning enforces a feasibility constraint to ensure solutions honors higher-order spatial statistics in the prior model
- Alternating directions minimization iteratively solves a continuous model calibration followed by mapping the solution onto the feasible set

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