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In this self-consistent monograph, the author gathers and describes different mathematical techniques and combines all together to form practical procedures for the inverse analyses. It puts together topics coming from mathematical programming, with soft computing and Proper Orthogonal

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There are some examples, where reduced order modeling has been combined with inverse analysis in biomechanics. For arterial hemodynamic fluid-structure interaction problems, an inverse analysis with uncertainty quantification was performed in Reference 37 using a reduced basis method. There are however few references for cardiac solid models.

Using parametric model order reduction for inverse ...

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INVERSE MODELING WITH DATA REDUCTION 6786 fõm^p fõm^1Hõm^2mP; (10) where m^ is the current solution and m is the previous solution.

Large-scale inverse model analyses employing fast ...

Therefore, this paper proposes a data reduction methodology that generates a solution of this inverse problem by using at least six numerical simulations within continuum mechanics. A Finite Differences code was used with a simplified version of Kelvin-Voigt viscoelastic model to solve the wave equation.

Numerical modelling and inverse analysis of continuous ...

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Inverse analyses with model reduction : proper orthogonal ...

inverse analysis scenario. Using the presented projection-based model order reduction approach can significantly speed up model personalization and could be used for many-query tasks in a clinical setting.

Using parametric model order reduction for inverse ...

Abstract When the number of observations is large, it is computationally challenging to apply classical inverse modeling techniques. We have developed a new computationally efficient technique for... Large-scale inverse model analyses employing fast randomized data reduction - Lin - 2017 - Water Resources Research - Wiley Online Library

