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Introduction to Inverse problems1.0 Introduction to inverse problems

1 Inverse Problem Overview 27 Inverse Problem, EEG source

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Compared with the method of characteristics, the gradient information enhances the computational efficiency and accuracy ... Considering their practical importance, inverse problems, such as ...

Method of curved-shock characteristics with application to inverse design of supersonic flowfields

Using two low-dimensional (linear and nonlinear) inverse problems

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we illustrate the validity this approach. Next, we apply our method to two high-dimensional numerical examples (elliptic and advection ...

Scaling Up Bayesian Uncertainty Quantification for Inverse Problems using Deep Neural Networks

The technique is often called "inverse," as the ... One might call these methods "model rich" data mining methods since (often extremely large) data sets are analyzed with the aid of mathematical ...

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The aim of this project is to use computational tools taken from inverse statistical mechanics to allow for a "bottom up" design of nanomaterials. Traditionally, the forward method of equilibrium ...

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The topics of the conference include finite element methods for eigenvalue problems, finite element methods for Maxwell's equation, computational inverse problems, inverse scattering problems. The ...

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and inverse problems related to image and diffraction data. The computational methods we employ – data compression, compressive sensing, wavelet transforms, dictionary learning, pattern classification

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inverse problems; nonlinear dynamics; and stochastic processes, including queueing theory. Mathematical techniques of interest include asymptotic methods, bifurcation theory, dynamical systems ...

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By solving this inverse problem, the machine-learning method could create, using computations, materials that exhibit the desired properties, they said. Researchers reported on their work in a paper ...

Researchers Use AI to Discover New Polymers

The MEG inverse problem of meditation The goal of this project ...

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with higher resolution in the deep brain that available software. The computational efficiency of the method is essential to take ...

Active Research Projects

My research focuses on developing novel methodology to solve statistical problems raised from neuroimaging ... The underlying methods of analysis include those of hierarchical aggregation and its ...

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Tiffany Jones (2018) "Conventional and Asymptotic Stabilities of Decomposed Compact Methods for Solving ... Point Boundary Value Problems" (Advisor: Johnny Henderson) 22. Brent Hamilton (2011)

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Former Ph.D. Students

The high dimensionality of the data space implies extremely high computational cost already for the evaluation of the forward operator, which makes a numerical solution of the inverse problem, e.g., by ...

Online workshop "PDE and Numerical Mathematics"

The research team will develop mathematical and computational models for the study of pulmonary ... solid mechanics, network analysis, inverse problems and parameter estimation. The proposed pulmonary ...

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Mathematics partial differential equation. His interest of research also includes inverse problems, mathematical imaging, nonlinear optics. His ...

Zhengfu Xu

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