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~~modeling Forward
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Inverse problems are typically ill-posed, as opposed to the well-posed problems usually met in mathematical modeling. Of the three conditions for a well-posed problem suggested by Jacques Hadamard (existence, uniqueness, and

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stability of the
solution or solutions)
the condition of
stability is most often
violated.

Mathematical
Inverse problem -
Wikipedia

More mathematicians
have been taking
part in the
development of
digital image
processing as a

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science and the
contributions are
reflected in the
increasingly
important role
modeling has played
solving complex
problems. This book
is mostly concerned
with energy-based
models. Through
concrete image

Modeling and Inverse

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The solution to an inverse problem is usually a class that simplifies the model. Therefore, the problem must be a quasi-solution to the inverse problem, that is, a solution that best fits the observations from a selected model class.

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Therefore, we get a practical existence: the solution to the inverse problem exists if there is m

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for solving ill-posed inverse problems, in which the gradient-like iterative scheme is used for optimizing

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the objective function, and gradients are learned with a CNN from the training data.

Antholzer et al. (2019) adopted a deep-learning framework for image reconstruction in

Deep-Learning based
Inverse Modeling
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The image inverse problems can be generally modeled as an energy function minimization problem, and the optimal solution is the desired restored or reconstructed image. It is commonly challenging to handcraft image prior / regularizer, and

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hyper-parameters in
model/algorithm.

Model Meets Deep
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Involving Joint
Variation. Many
situations are more
complicated than a
basic direct variation
or inverse variation
model. One variable
often depends on
multiple other
variables. When a
variable is dependent

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on the product or quotient of two or more variables, this is called joint variation. For example, the cost of busing ...

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In this thesis the Bayesian modeling and discretization are

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studied in inverse problems related to imaging. The treatise consists of four articles which focus on the phenomena that appear when more detailed data or a priori information become available.

Discretization and Bayesian modeling in inverse problems ...

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Recent research in inverse problems seeks to develop a mathematically coherent foundation for combining data-driven models, and in particular those based on deep learning, with domain-specific...

(PDF) Solving inverse problems using data-

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In this work, we propose to solve the EEG inverse problem by using the bidomain model (Sundnes, 2007). The bidomain is a reaction-diffusion model for the electrical activity of the heart and takes into account the anisotropy of the

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intracellular and
extracellular cell
domains.

The inverse problem
in electroencephalog
raphy using the ...

The problem of
constructing
populations of
deterministic models
and identifying
distributions of
model input

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parameters from
stochastic
observations is
known under
different names,
including
“ Stochastic Inverse
Problem ” (SIP) [1]
and “ populations of
models ” [2, 3, 4, 5].

INTEGRATION OF AI
AND MECHANISTIC
MODELING IN

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GENERATIVE ...

The inverse problem in its full generality is typically ill-posed and one common approach is to replace the original problem with an effective parameter estimation problem. We will here include microscale features directly in the inverse problem and avoid ill-

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posedness by
assuming that the
microscale can be
accurately
represented by a low-
dimensional
parametrization.

[1401.2431]

Numerical methods
for multiscale inverse
problems

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Modeling and Inverse Problems Abstract: In this two-part paper, we present a novel framework and methodology to analyze data from certain image-based biochemical assays, e.g., ELISPOT and Fluorospot assays.

Cell Detection by
Functional Inverse

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Diffusion and Non ...

Abstract The solution to an inverse problem is often resolved by inverting the perturbation to a reference model of physical parameters and using regularizations.

Adaptive

Regularization of the Reference Model in

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an...
In this approach, the modeling error is modeled as an additive noise term in the Bayesian formulation of the inverse problem, and a low-cost predictor model is constructed using Monte Carlo sampling or statistical learning.

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