

Multiscale Modeling A Bayesian Perspective

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Multiscale Modeling: A Bayesian Perspective Marco A.R. Ferreira, Herbert K.H. Lee A wide variety of processes occur on multiple scales, either naturally or as a consequence of measurement. This book contains methodology for the analysis of data that arise from such multiscale processes.

Multiscale Modeling A Bayesian Perspective

This book contains methodology for the analysis of data that arise from such multiscale processes. The book brings together a number of recent developments

and makes them accessible to a wider audience. Taking a Bayesian approach allows for full accounting of uncertainty, and also addresses the delicate issue of uncertainty at multiple scales.

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Multiscale Modeling | SpringerLink

Predictions resulting from this multiscale approach can be made more robust by incorporating information about correlations and causal relationships between scales and within a single scale. Causality stems for example from physical, chemical, and/or engineering design constraints. Our primary objective is to bring a Bayesian network perspective to the

CAUSALITY AND BAYESIAN NETWORK PDES FOR MULTISCALE ...

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Modeling A Bayesian PerspectiveMultiscale modeling : a Bayesian perspective. [Marco Antonio Rosa Ferreira; Herbert K H Lee] -- "A wide variety of processes occur on multiple scales, either naturally or as a consequence of measurement. Multiscale modeling : a Bayesian perspective (eBook, 2007 ... Page 12/25

Multiscale Modeling A Bayesian Perspective

In the present work, Bayes' theorem, an advanced statistical tool widely used in signal processing and pattern recognition, is adopted to further improve the MS-CG force field obtained from the CG modeling. This approach can regularize the linear equation resulting from the underlying force-matching methodology, therefore substantially improving the quality of the MS-CG force field, especially for the regions with limited sampling.

A Bayesian statistics approach to multiscale coarse ...

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In this article we review the Bayesian approach to regularization, developing a function space viewpoint on the subject. This approach allows for a full characterization of all possible solutions, and their relative probabilities, whilst simultaneously forcing significant modelling issues to be addressed in a clear and precise fashion.

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