

Multiscale Modeling A Bayesian Perspective

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Multiscale Modeling A Bayesian Perspective

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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

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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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