

COMPUTATIONAL METHODS FOR DATA EVALUATION AND ASSIMILATION

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CRC Press
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Computational Methods For Data Evaluation And Assimilation

Dan Gabriel Cacuci



Computational Methods For Data Evaluation And Assimilation:

Computational Methods for Data Evaluation and Assimilation Dan Gabriel Cacuci, Ionel Michael Navon, Mihaela Ionescu-Bujor, 2016-04-19 Data evaluation and data combination require the use of a wide range of probability theory concepts and tools from deductive statistics mainly concerning frequencies and sample tallies to inductive inference for assimilating non frequency data and a priori knowledge Computational Methods for Data Evaluation and Assimilation presents interdisciplinary *Applications of Data Assimilation and Inverse Problems in the Earth Sciences* Alik Ismail-Zadeh, Fabio Castelli, Dylan Jones, Sabrina Sanchez, 2023-07-06 Many contemporary problems within the Earth sciences are complex and require an interdisciplinary approach This book provides a comprehensive reference on data assimilation and inverse problems as well as their applications across a broad range of geophysical disciplines With contributions from world leading researchers it covers basic knowledge about geophysical inversions and data assimilation and discusses a range of important research issues and applications in atmospheric and cryospheric sciences hydrology geochronology geodesy geodynamics geomagnetism gravity near Earth electron radiation seismology and volcanology Highlighting the importance of research in data assimilation for understanding dynamical processes of the Earth and its space environment and for predictability it summarizes relevant new advances in data assimilation and inverse problems related to different geophysical fields Covering both theory and practical applications it is an ideal reference for researchers and graduate students within the geosciences who are interested in inverse problems data assimilation predictability and numerical methods The Second-Order Adjoint Sensitivity Analysis Methodology Dan Gabriel Cacuci, 2018-02-19 The Second Order Adjoint Sensitivity Analysis Methodology generalizes the First Order Theory presented in the author's previous books published by CRC Press This breakthrough has many applications in sensitivity and uncertainty analysis optimization data assimilation model calibration and reducing uncertainties in model predictions The book has many illustrative examples that will help readers understand the complexity of the subject and will enable them to apply this methodology to problems in their own fields Highlights Covers a wide range of needs from graduate students to advanced researchers Provides a text positioned to be the primary reference for high order sensitivity and uncertainty analysis Applies to all fields involving numerical modeling optimization quantification of sensitivities in direct and inverse problems in the presence of uncertainties About the Author Dan Gabriel Cacuci is a South Carolina SmartState Endowed Chair Professor and the Director of the Center for Nuclear Science and Energy Department of Mechanical Engineering at the University of South Carolina He has a Ph D in Applied Physics Mechanical and Nuclear Engineering from Columbia University He is also the recipient of many awards including four honorary doctorates the Ernest Orlando Lawrence Memorial award from the U S Dept of Energy and the Arthur Holly Compton Eugene P Wigner and the Glenn Seaborg Awards from the American Nuclear Society

Computational Techniques in Environmental Engineering Akhilesh Kumar Yadav, 2025-03-31 This book provides a

comprehensive and practical guide to environmental engineering covering a wide range of computational tools modeling approaches and data analysis methods It explores various computational modeling techniques including mathematical models numerical methods and computer simulations for modeling environmental systems and processes Key Features Presents case studies and examples of successful applications of computational approaches in addressing various environmental engineering challenges Focuses on the practical application of computational approaches and showcasing successful examples Aims to develop problem solving skills for environmental engineers using computational methods Discusses computational approaches for environmental impacts designs and decisions Provides real world examples of computational approaches to environmental problems This book is aimed at graduate students and researchers in environmental and civil engineering and related computational and modeling studies

Parallel Computing: Technology Trends Ian

Foster,Ludek Kucera,Wolfgang E. Nagel,Frans Peters,2020-03-15 The year 2019 marked four decades of cluster computing a history that began in 1979 when the first cluster systems using Components Off The Shelf COTS became operational This achievement resulted in a rapidly growing interest in affordable parallel computing for solving compute intensive and large scale problems It also directly lead to the founding of the Parco conference series Starting in 1983 the International Conference on Parallel Computing ParCo has long been a leading venue for discussions of important developments applications and future trends in cluster computing parallel computing and high performance computing ParCo2019 held in Prague Czech Republic from 10 13 September 2019 was no exception Its papers invited talks and specialized mini symposia addressed cutting edge topics in computer architectures programming methods for specialized devices such as field programmable gate arrays FPGAs and graphical processing units GPUs innovative applications of parallel computers approaches to reproducibility in parallel computations and other relevant areas This book presents the proceedings of ParCo2019 with the goal of making the many fascinating topics discussed at the meeting accessible to a broader audience The proceedings contains 57 contributions in total all of which have been peer reviewed after their presentation These papers give a wide ranging overview of the current status of research developments and applications in parallel computing

BERRU Predictive Modeling Dan Gabriel Cacuci,2018-12-29 This book addresses the experimental calibration of best estimate numerical simulation models The results of measurements and computations are never exact Therefore knowing only the nominal values of experimentally measured or computed quantities is insufficient for applications particularly since the respective experimental and computed nominal values seldom coincide In the author s view the objective of predictive modeling is to extract best estimate values for model parameters and predicted results together with best estimate uncertainties for these parameters and results To achieve this goal predictive modeling combines imprecisely known experimental and computational data which calls for reasoning on the basis of incomplete error rich and occasionally discrepant information The customary methods used for data assimilation combine experimental and computational

information by minimizing an a priori user chosen cost functional usually a quadratic functional that represents the weighted errors between measured and computed responses In contrast to these user influenced methods the BERRU Best Estimate Results with Reduced Uncertainties Predictive Modeling methodology developed by the author relies on the thermodynamics based maximum entropy principle to eliminate the need for relying on minimizing user chosen functionals thus generalizing the data adjustment and or the 4D VAR data assimilation procedures used in the geophysical sciences The BERRU predictive modeling methodology also provides a model validation metric which quantifies the consistency agreement disagreement between measurements and computations This model validation metric or consistency indicator is constructed from parameter covariance matrices response covariance matrices measured and computed and response sensitivities to model parameters Traditional methods for computing response sensitivities are hampered by the curse of dimensionality which makes them impractical for applications to large scale systems that involve many imprecisely known parameters Reducing the computational effort required for precisely calculating the response sensitivities is paramount and the comprehensive adjoint sensitivity analysis methodology developed by the author shows great promise in this regard as shown in this book After discarding inconsistent data if any using the consistency indicator the BERRU predictive modeling methodology provides best estimate values for predicted parameters and responses along with best estimate reduced uncertainties i e smaller predicted standard deviations for the predicted quantities Applying the BERRU methodology yields optimal experimentally validated best estimate predictive modeling tools for designing new technologies and facilities while also improving on existing ones

Data Science and Big Data Analytics in Smart Environments Marta Chinnici, Florin Pop, Catalin Negru, 2021-07-28 Most applications generate large datasets like social networking and social influence programs smart cities applications smart house environments Cloud applications public web sites scientific experiments and simulations data warehouse monitoring platforms and e government services Data grows rapidly since applications produce continuously increasing volumes of both unstructured and structured data Large scale interconnected systems aim to aggregate and efficiently exploit the power of widely distributed resources In this context major solutions for scalability mobility reliability fault tolerance and security are required to achieve high performance and to create a smart environment The impact on data processing transfer and storage is the need to re evaluate the approaches and solutions to better answer the user needs A variety of solutions for specific applications and platforms exist so a thorough and systematic analysis of existing solutions for data science data analytics methods and algorithms used in Big Data processing and storage environments is significant in designing and implementing a smart environment Fundamental issues pertaining to smart environments smart cities ambient assisted living smart houses green houses cyber physical systems etc are reviewed Most of the current efforts still do not adequately address the heterogeneity of different distributed systems the interoperability between them and the systems resilience This book will primarily encompass practical approaches that promote research in

all aspects of data processing data analytics data processing in different type of systems Cluster Computing Grid Computing Peer to Peer Cloud Edge Fog Computing all involving elements of heterogeneity having a large variety of tools and software to manage them The main role of resource management techniques in this domain is to create the suitable frameworks for development of applications and deployment in smart environments with respect to high performance The book focuses on topics covering algorithms architectures management models high performance computing techniques and large scale distributed systems Computational Techniques for Modeling Atmospheric Processes Prusov, Vitaliy, Doroshenko, Anatoliy, 2017-06-16 Meteorology has made significant strides in recent years due to the development of new technologies With the aid of the latest instruments the analysis of atmospheric data can be optimized Computational Techniques for Modeling Atmospheric Processes is an academic reference source that encompasses novel methods for the collection and study of meteorological data Including a range of perspectives on pertinent topics such as air pollution parameterization and thermodynamics this book is an ideal publication for researchers academics practitioners and students interested in instrumental methods in the study of atmospheric processes **Advances in High-Order Predictive Modeling** Dan Gabriel Cacuci, 2024-12-11 Continuing the author's previous work on modeling this book presents the most recent advances in high order predictive modeling The author begins with the mathematical framework of the 2nd BERRU PM methodology an acronym that designates the second order best estimate with reduced uncertainties 2nd BERRU predictive modeling PM The 2nd BERRU PM methodology is fundamentally anchored in physics based principles stemming from thermodynamics maximum entropy principle and information theory being formulated in the most inclusive possible phase space namely the combined phase space of computed and measured parameters and responses The 2nd BERRU PM methodology provides second order output means and variances but can incorporate as input arbitrarily high order sensitivities of responses with respect to model parameters as well as arbitrarily high order moments of the initial distribution of uncertain model parameters in order to predict best estimate mean values for the model responses i.e. results of interest and calibrated model parameters along with reduced predicted variances and covariances for these predicted responses and parameters

Uncertainty Quantification Ralph C. Smith, 2013-12-02 The field of uncertainty quantification is evolving rapidly because of increasing emphasis on models that require quantified uncertainties for large scale applications novel algorithm development and new computational architectures that facilitate implementation of these algorithms Uncertainty Quantification Theory Implementation and Applications provides readers with the basic concepts theory and algorithms necessary to quantify input and response uncertainties for simulation models arising in a broad range of disciplines The book begins with a detailed discussion of applications where uncertainty quantification is critical for both scientific understanding and policy It then covers concepts from probability and statistics parameter selection techniques frequentist and Bayesian model calibration propagation of uncertainties quantification of model discrepancy surrogate model construction and local

and global sensitivity analysis The author maintains a complementary web page where readers can find data used in the exercises and other supplementary material

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