MATTHIAS MORZFELD, LIST OF PUBLICATIONS

JOURNAL PUBLICATIONS


D. Hodyss, C.H. Bishop, and M. Morzfeld, *To what extent is your data assimilation scheme designed to find the posterior mean, the posterior mode or something else?*, Tellus A: Dynamic Meteorology and Oceanography, 68:1, 30625 (2016).


A.J. Chorin, F. Lu, R.N. Miller, M. Morzfeld, and X. Tu, *Sampling, feasibility, and priors in data assimilation*, Discrete and Continuous Dynamical Systems 36(8), special issue dedicated to Peter D. Lax on the occasion of his ninetieth birthday, (2016).


**Book Chapters**


**Conference Proceedings**


H.C. Godinez and M. Morzfeld, *Estimation and prediction for an orbital propagation model using

A.J. Chorin, M. Morzfeld, and X. Tu, Implicit sampling, with application to data assimilation, Conference in honor of J.L. Lions, Fudan University, Shanghai (2012).


F. Ma and M. Morzfeld, A general methodology for decoupling linear dynamical systems, 12th East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-12), Hong Kong, China (2011).


Conference Presentations

G. Hulot, A. Fournier, M. Morzfeld, Coarse predictions of dipole reversals by low-dimensional modeling and data assimilation, IAGA/IAPSO/IAMAS Meeting 2017, Cape Town, South Africa.


M. Morzfeld, D. Hodyss, C. Snyder, What the collapse of the ensemble Kalman filter tells us about localization of particle filters, Monte Carlo and quasi Monte Carlo, Palo Alto (2016).


M. Morzfeld, A. Fournier, G. Hulot Understanding and Predicting Geomagnetic Dipole Reversals Via Low Dimensional Models and Data Assimilation, American Geophysical Union: General Assembly, San Francisco (2014).


M. Morzfeld, E. Atkins, and A.J. Chorin, Geomagnetic data assimilation with an implicit filter into a one-dimensional sparsely observed MHD system, European Geosciences Union: General Assembly, Vienna (2011).


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M. Morzfeld, A.J. Chorin, and X. Tu, Implicit filters for data assimilation, American Geophysical Union: Meeting of the Americas, Foz do Iguacu, Brazil (2010).

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J. Adams, M. Morzfeld, B.A. Buffett, Studying the geomagnetic polarity time scale and superchrons by scalar models and feature based data assimilation, American Geophysical Union: General Assembly, San Francisco (2016).

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Francisco (2016).


