List of Publications

Preprints

1. Yao Yue, Lihong Feng, Peter Benner. An Adaptive Pole-Matching Method for Interpolating Reduced-Order Models. *arXiv:1908.00820*, 2019.

2. Sridhar Chellappa, Lihong Feng, Valentin de la Rubia, Peter Benner. Inf-Sup-Constant-Free State Error Estimator for Model Order Reduction of Parametric Systems in Electromagnetics. *arXiv:2104.12802*, 2021.

3. L. Feng and L. Lombardi and G. Antonini and P. Benner. Multi-fidelity error estimation accelerates greedy model reduction of complex dynamical systems. em arXiv:2301.05610, 2023.

Book

1. System-level Modeling of MEMS; *Volume 10, Advanced Micro & Nanosystems*, T. Bechtold, G. Schrag, L. Feng (editors), WILEY-VCH, 2013. ISBN/ISSN: 9783527319039

Book chapters

2. Lihong Feng and Peter Benner. Model Order Reduction based on Moment-Matching. In P. Benner, St. Grivet-Talocia, A. Quarteroni, G. Rozza, W. Schilders, and L. M. Silveira (Eds.), Model Order Reduction: Volume 1: System- and Data-Driven Methods and Algorithms, De Gruyter, pp. 57–96, 2021. DOI: 10.1515/9783110498967-003

3. Sridhar Chellappa, Lihong Feng, Valentin de la Rubia, and Peter Benner. Adaptive Interpolatory MOR by Learning the Error Estimator in the Parameter Domain. In P. Benner, T. Breiten, H. Faßbender, M. Hinze, T. Stykel and R. Zimmermann (Eds.), Model Reduction of Complex Dynamical Systems, Springer, pp. 92–117, 2021. DOI: 10.1007/978-3-030-72983-7_5 *arXiv Preprint arXiv:2003.02569v1*

4. J. Korvink, K. Poletkin, Y. Deng, L. Feng. A digital twin for MEMS and NEMS. In M. Rudan, R. Brunetti, S. Reggiani (Section editors), Springer Handbook of Semiconductor Devices, Part 4, Modeling, Chapter 3, pp. 1303–1330, 2021. DOI:10.1007/978-3-030-79827-7_36

5. S. Chellappa, L. Feng and P. Benner. An Adaptive Sampling Approach for the Reduced Basis Method. In C. Beattie, P. Benner, M. Embree, S. Gugercin, S. Lefteriu (Eds.), Realization and Model Reduction of Dynamical Systems – A Festschrift in Honor of 70th Birthday of Thanos Antoulas, Springer, pp. 137–155, 2022.

6. L. Feng and P. Benner. Parametric model order reduction for electro-thermal coupled problems. In E. Jan W. ter Maten, H.-G. Brachtendorf, R. Pulch and W. Schoenmaker (editors), Nanoelectronic Coupled Problems Solutions, part of the Mathematics in Industry book series (MATHINDUSTRY, volume 29), and part of the The European Consortium for Mathematics in Industry book sub series (TECMI, volume 29), Chapter 13, pp. 293–309, 2019.

7. N. Banagaaya, L. Feng and P. Benner. Sparse (P)MOR for electro-thermal coupled problems with many inputs. In E. Jan W. ter Maten, H.-G. Brachtendorf, R. Pulch and W. Schoenmaker (editors), Nanoelectronic Coupled Problems Solutions, part of the Mathematics in Industry book series (MATHINDUSTRY, volume 29), and part of the The European Consortium for Mathematics in Industry book sub series (TECMI, volume 29), Chapter 14, pp. 311–328, 2019.

8. Y. Yue, L. Feng, P. Benner, R. Pulch and S. Schöps. Reduced models and uncertainty quantification. In E. Jan W. ter Maten, H.-G. Brachtendorf, R. Pulch and W. Schoenmaker (editors), Nanoelectronic Coupled Problems Solutions, part of the Mathematics in Industry book series (MATHINDUSTRY, volume 29), and part of the The European Consortium for Mathematics in Industry book sub series (TECMI, volume 29), Chapter 14, pp. 329–346, 2019.

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13. Lihong Feng. Predicting Output Responses of Nonlinear Dynamical Systems With Parametrized Inputs Using LSTM. *IEEE Journal on Multiscale and Multiphysics Computational Techniques.* 8: 97-107, 2023, DOI: 10.1109/JMMCT.2023.3242044.

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