

Bibliography

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References

- [1] N. Demo, M. Tezzele, A. Mola, and G. Rozza, “A complete data-driven framework for the efficient solution of parametric shape design and optimisation in naval engineering problems,” in *VIII International Conference on Computational Methods in Marine Engineering*, 2019. arXiv: 1905.05982 [math.NA].
- [2] N. Demo, M. Tezzele, and G. Rozza, “A non-intrusive approach for the reconstruction of POD modal coefficients through active subspaces,” *Comptes Rendus Mécanique*, vol. 347, no. 11, pp. 873–881, Nov. 2019. DOI: 10.1016/j.crme.2019.11.012. arXiv: 1907.12777 [math.NA]. [Online]. Available: <https://doi.org/10.1016/j.crme.2019.11.012>.
- [3] M. Tezzele, N. Demo, and G. Rozza, “Shape optimization through proper orthogonal decomposition with interpolation and dynamic mode decomposition enhanced by active subspaces,” in *VIII International Conference on Computational Methods in Marine Engineering*, 2019. arXiv: 1905.05483 [math.NA].
- [4] N. Demo, M. Tezzele, G. Gustin, G. Lavini, and G. Rozza, “Shape optimization by means of proper orthogonal decomposition and dynamic mode decomposition,” in *Technology and Science for the Ships of the Future: Proceedings of NAV 2018: 19th International Conference on Ship & Maritime Research*, IOS Press, 2018, pp. 212–219. DOI: 10.3233/978-1-61499-870-9-212. arXiv: 1803.07368 [math.NA].
- [5] N. Demo, M. Tezzele, A. Mola, and G. Rozza, “An efficient shape parametrisation by free-form deformation enhanced by active subspace for hull hydrodynamic ship design problems in open source environment,” in *The 28th International Ocean and Polar Engineering Conference*, 2018. arXiv: 1801.06369 [math.NA].
- [6] N. Demo, M. Tezzele, and G. Rozza, “EZyRB: Easy reduced basis method,” *Journal of Open Source Software*, vol. 3, no. 24, p. 661, Apr. 2018. DOI: 10.21105/joss.00661. [Online]. Available: <https://doi.org/10.21105/joss.00661>.

- [7] N. Demo, M. Tezzele, and G. Rozza, “PyDMD: Python dynamic mode decomposition,” *Journal of Open Source Software*, vol. 3, no. 22, p. 530, Feb. 2018. DOI: 10.21105/joss.00530. [Online]. Available: <https://doi.org/10.21105/joss.00530>.
- [8] F. Garotta, N. Demo, M. Tezzele, M. Carraturo, A. Reali, and G. Rozza, “Reduced order isogeometric analysis approach for PDEs in parametrized domains,” *LNCSE series, Springer, QUIET special volume “Quantification of Uncertainty: improving efficiency and technology [in press]*, 2018. arXiv: 1811.08631 [math.NA].
- [9] G. Rozza, M. H. Malik, N. Demo, M. Tezzele, M. Girfoglio, G. Stabile, and A. Mola, “Advances in Reduced Order Methods for Parametric Industrial Problems in Computational Fluid Dynamics,” in *Proceedings of the ECCOMAS Congress 2018*, ECCOMAS, Glasgow, UK: ECCOMAS, 2018. arXiv: 1811.08319 [math.NA].
- [10] M. Tezzele, N. Demo, M. Gadalla, A. Mola, and G. Rozza, “Model order reduction by means of active subspaces and dynamic mode decomposition for parametric hull shape design hydrodynamics,” in *Technology and Science for the Ships of the Future: Proceedings of NAV 2018: 19th International Conference on Ship & Maritime Research*, IOS Press, 2018, pp. 569–576. DOI: 10.3233/978-1-61499-870-9-569. arXiv: 1803.07377 [math.NA].
- [11] M. Tezzele, N. Demo, A. Mola, and G. Rozza, “An integrated data-driven computational pipeline with model order reduction for industrial and applied mathematics,” in *Novel mathematics inspired by industrial challenges [in press]*. 2018. arXiv: 1810.12364 [math.NA].
- [12] E. Calore, N. Demo, S. F. Schifano, and R. Tripiccone, “Experience on vectorizing lattice boltzmann kernels for multi- and many-core architectures,” in *Parallel Processing and Applied Mathematics*. Springer International Publishing, 2016, pp. 53–62, ISBN: 978-3-319-32149-3. DOI: 10.1007/978-3-319-32149-3_6. [Online]. Available: https://doi.org/10.1007/978-3-319-32149-3_6.