

LIST of PUBLICATIONS of CARLA MANNI

2021

- [125–2021] **C. Manni**, E. Sande, H. Speleers: *Application of optimal spline subspaces for the removal of spurious outliers in isogeometric discretizations*, Computer Methods in Applied Mechanics and Engineering, to appear.
- [124–2021] T. Lyche, **C. Manni**, H. Speleers: *Construction of C^2 cubic splines on arbitrary triangulations*, Foundations of Computational Mathematics, to appear
- [123–2021] M. L. Cardinali, C. Garoni, **C. Manni**, H. Speleers: *Isogeometric discretizations with generalized B-splines: symbol-based spectral analysis*, Applied Numerical Mathematics, 166 (2021) 288–312
<https://doi.org/10.1016/j.apnum.2021.04.009>
- [122–2021] M. S. Floater, **C. Manni**, E. Sande, H. Speleers: *Best low-rank approximations and Kolmogorov n -widths*, SIAM Journal on Matrix Analysis and Applications, 42 (2021), 330–350
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<https://doi.org/10.1016/j.cma.2020.113230>
- [120–2020] C. Garoni, **C. Manni**, S. Serra-Capizzano, H. Speleers: *NURBS in isogeometric discretization methods: A spectral analysis*, Numerical Linear Algebra with Applications, 2020;27:e2318.
<https://doi.org/10.1002/nla.2318>
- [119–2020] R. R. Hiemstra, T. J. R. Hughes, **C. Manni**, H. Speleers, D. Toshniwal, *A Tchebycheffian extension of multi-degree B-splines: Algorithmic computation and properties*, SIAM Journal on Numerical Analysis, 58 (2020) 1138–1163.
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- [118–2020] E. Sande, **C. Manni**, H. Speleers: *Explicit error estimates for spline approximation of arbitrary smoothness in isogeometric analysis*, Numerische Mathematik, 144 (2020) 889–929.
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- [117–2020] D. Toshniwal, H. Speleers, R. R. Hiemstra, **C. Manni**, T. J. R. Hughes: *Multi-degree B-splines: Algorithmic computation and properties*, CAGD, 76 (2020), 101792
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- [116–2020] M. Mazza, **C. Manni**, H. Speleers: *Spectral analysis of isogeometric discretizations of 2D curl-div problems with general geometry*, in S. J. Sherwin, D. Moxey, J. Peiró, P. E. Vincent, C. Schwab, eds.: Spectral and High Order Methods for Partial Differential Equations ICOSAHOM 2018, Lecture Notes in Computational Science and Engineering (2020), 134, 251–262.
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- [115–2019] T. Lyche, **C. Manni**, H. Speleers: *Tchebycheffian B-Splines Revisited: An Introductory Exposition*, in C. Giannelli H. Speleers, eds.: Advanced Methods for Geometric Modeling and Numerical Simulation, Springer INdAM Series 35 (2019) 179–216.
- [114–2019] E. Sande, **C. Manni**, H. Speleers: *Sharp error estimates for spline approximation: explicit constants, n -widths, and eigenfunction convergence*, Mathematical Models and Methods in Applied Sciences, 29 (2019) 1175–1205
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- [113–2019] C. Bracco, T. Lyche, **C. Manni**, H. Speleers: *Tchebycheffian spline spaces over planar T-meshes: Dimension bounds and dimension instabilities*, J. of Computational and Applied Mathematics, 349 (2019) 265–278
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- [112–2019] M. Mazza, **C. Manni**, A. Ratnani, S. Serra-Capizzano, H. Speleers *Isogeometric analysis for 2D and 3D curl-div problems: Spectral symbols and fast iterative solvers*, Computer Methods in Applied Mechanics and Engineering, 344 (2019) 970–997
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